










Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Introduction

Overview

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Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p>3VL molded case circuit breakers for line protection</p> <p>3VL molded case circuit breakers for generator protection</p>	2/140 ... 2/155, 2/164 ... 2/181	<p>The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.</p> <p>The overload and short-circuit releases can be used for optimized protection of generators.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p>3VL molded case circuit breakers for motor protection</p> <p>Are you IE3/IE4 ready?</p> 	2/156 ... 2/159	<p>Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional functions such as phase failure detection and adjustable trip class.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p>3VL molded case circuit breakers for starter protection</p> <p>Are you IE3/IE4 ready?</p> 	2/160, 2/161	<p>Starter combinations consist of: motor starter protector + contactor + overload relay. The motor starter protector provides short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay provides overload protection, which is specifically designed for the motor.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p>3VL non-automatic circuit breakers, molded case</p>	2/160, 2/161, 2/182, 2/183	<p>These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. Isolating features according to IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p>Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers</p>	2/189, 2/190	<p>Auxiliary switches, alarm switches, undervoltage releases and shunt releases</p>	As for circuit breakers	✓	✓	✓
 <p>Operating mechanisms</p>	2/192 ... 2/199	<p>The manual operating mechanisms are available in two versions:</p> <ul style="list-style-type: none"> • Front-operated rotary operating mechanism, • Door-coupling rotary operating mechanism <p>In the case of the motorized operating mechanisms there are also two versions:</p> <ul style="list-style-type: none"> • MO for standard applications • SEO for network synchronization tasks 	As for circuit breakers	✓	✓	✓
 <p>Plug-in versions/withdrawable versions</p>	2/200 ... 2/205	<p>Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.</p>	As for circuit breakers	✓	✓	✓

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	2/206	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	IEC EN 60947-2 (Annex 5)	✓	✓	✓
	Ch. 13	Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.	IEC EN 60947-2 (Annex M)	✓	✓	✓
	2/207 ... 2/212	Front connecting bars, rear terminals, box terminals, circular conductor terminals, multiple feed-in terminals, auxiliary conductor terminals, terminal plates, connections with screw terminals, terminal covers for circuit breakers, phase barriers for circuit breakers	As for circuit breakers	✓	✓	✓
	2/213 ... 2/218	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden cable interlocking	As for circuit breakers	✓	✓	✓
	Ch. 8	The 3KC ATC5300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications.	IEC 60947-6-1 DIN VDE 0660-114 UL 508 CSA 22.2 No. 14	✓	✓	✓
	Ch. 11	Busbar adapters	As for circuit breakers	✓	✓	✓
	2/221	Data transmission through COM20, COM21: COM20 (PROFIBUS) for Electronic Trip Units with communication function, COM21 (MODBUS) for Electronic Trip Units with communication function, powerconfig parameterization software	As for circuit breakers	✓	✓	✓
Further accessories	2/222 ... 2/225	Cover frames for door cut-outs, to increase degree of protection	As for circuit breakers	✓	✓	✓

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Type VL160X/3VL1 VL160/3VL2 VL250/3VL3 VL400/3VL4

Molded case circuit breakers

3VL molded case circuit breakers up to 1600 A

Rated current I_n at 50 °C ambient temperature	A	16 ... 160		50 ... 160		200 ... 250		200 ... 400		
Number of poles		3	4	3	4	3	4	3	4	
Rated operational voltage U_e 50/60 Hz AC DC ¹⁾	V	690	690	690	690	690	690	690	690	
	V	500	500 ²⁾	600	600	600	600	600	600	
Trip units										
Thermal-magnetic		✓	✓	✓	✓	✓	✓	✓	✓	
Electronic LCD ETU/ETU		--	--	✓	✓	✓	✓	✓	✓	
PROFIBUS module COM20		--	--	✓	✓	✓	✓	✓	✓	
Dimensions										
	A	mm	105	139	105	139	105	139	139	183
	B	mm	157	157	175	175	175	175	279	279
	C	mm	81	81	81	81	81	81	102	102
	D	mm	107	107	107	107	107	107	138	138

Breaking capacity I_{cu}/I_{cs}

RMS value acc. to IEC 60947-2

Standard breaking capacity N³⁾

Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	55/55	55/55	55/55	55/55
Up to 440 V AC	kA	25/20	25/20	25/20	35/26
Up to 500/525 V AC	kA	18/14	25/20	25/20	25/20
Up to 690 V AC	kA	8/4 ⁴⁾	12/6	12/6	15/8
Up to 250 V DC ⁵⁾	kA	30/30	32/32	32/32	32/32
Up to 500 V DC ⁵⁾	kA	--	--	--	--
Up to 600 V DC ⁵⁾	kA	--	--	--	--
NEMA breaking capacity⁶⁾					
Up to 480 V AC	kA	25	25	25	35
Up to 600 V AC	kA	8 ⁴⁾	12	12	20

High breaking capacity H³⁾

Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 440 V AC	kA	42/32	50/38	50/38	50/38
Up to 500/525 V AC	kA	30/23	40/30	40/30	40/30
Up to 690 V AC	kA	12/6 ⁴⁾	12/6	12/6	15/8
Up to 250 V DC ⁵⁾	kA	30/30	32/32	32/32	32/32
Up to 500 V DC ⁵⁾	kA	30/30	32/32	32/32	32/32
Up to 600 V DC ⁵⁾	kA	--	--	--	--
NEMA breaking capacity⁶⁾					
Up to 480 V AC	kA	42	50	50	50
Up to 600 V AC	kA	12 ⁴⁾	12	12	20

Very high breaking capacity L³⁾

Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 440 V AC	kA	--	75/50	75/50	75/50
Up to 500/525 V AC	kA	--	50/38	50/38	50/38
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC ⁵⁾	kA	--	32/32	32/32	32/32
Up to 500 V DC ⁵⁾	kA	--	32/32	32/32	32/32
Up to 600 V DC ⁵⁾	kA	--	32/32	32/32	32/32
NEMA breaking capacity⁶⁾					
Up to 480 V AC	kA	--	75	75	75
Up to 600 V AC	kA	--	12	12	20

✓ Available

-- Not available

For 3VL molded case circuit breakers acc. to UL 489
see page 2/228 or see Catalog LV 16.

¹⁾ Rated DC voltage applies only for circuit breakers with thermal-magnetic trip unit.

²⁾ For PV applications up to $U_{oc} = 1000$ V DC.

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VL630/3VL5



VL800/3VL6



VL1250/3VL7



VL1600/3VL8

3VL molded case circuit breakers up to 1600 A

315 ... 630		800		1000 ... 1250		1600	
3	4	3	4	3	4	3	4
690	690	690	690	690	690	690	690
600	600	--	--	--	--	--	--
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
190	253	190	253	229	305	229	305
279	279	406	406	406	406	406	406
102	102	114	114	152	152	152	152
138	138	151	151	207	207	207	207

65/65	65/65	65/35	65/35
55/55	55/55	55/28	55/28
35/26	35/26	35/26	35/26
25/20	25/20	25/20	25/20
20/10	20/10	20/10	20/10
32/32	--	--	--
--	--	--	--
--	--	--	--
25	25	25	25
20	20	20	20

100/75	100/75	100/50	100/50
70/70	70/70	70/35	70/35
50/38	50/38	50/38	50/38
40/30	40/30	40/30	40/30
20/10	20/10	30/15	30/15
32/32	--	--	--
32/32	--	--	--
--	--	--	--
50	50	50	50
30	30	30	30

200/150	200/150	200/100	200/100
100/75	100/75	100/50	100/50
75/50	75/50	75/50	75/50
50/38	50/38	50/38	50/38
20/10	20/10	35/17	35/17
32/32	--	--	--
32/32	--	--	--
32/32	--	--	--
65	65	65	65
35	35	35	35

3) At 240 V AC, 415 V AC, 525 V AC and 690 V AC max. 5% overvoltage, at 440 V AC and 500 V AC max. 10% overvoltage, at 250/500/600 V DC max. 5% overvoltage.

4) Rated current $I_n \geq 25$ A.

5) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications; see Technical Information at www.siemens.com/lowvoltage/product-support; time constant $t = 15$ ms.

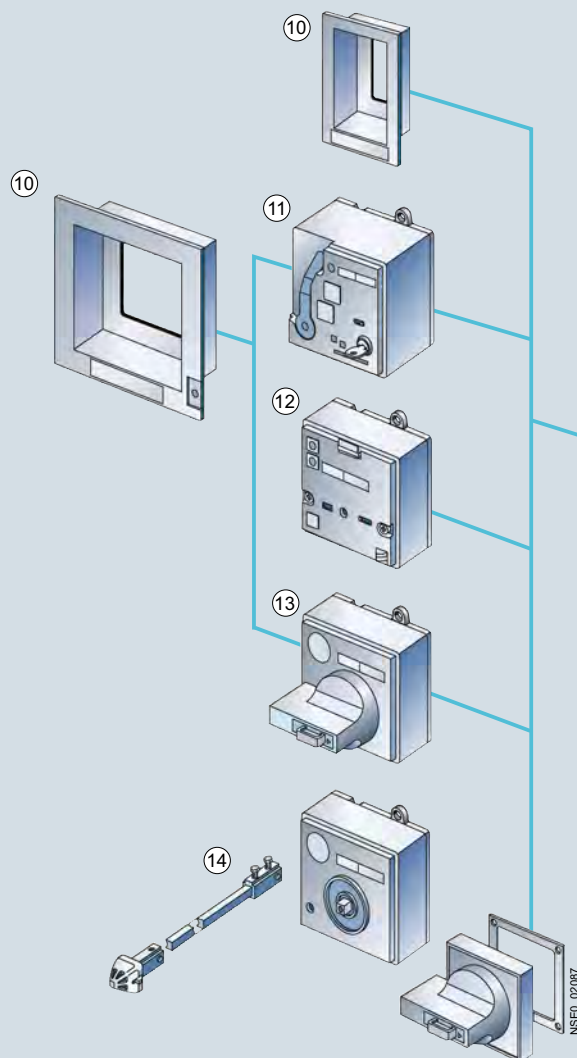
6) The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

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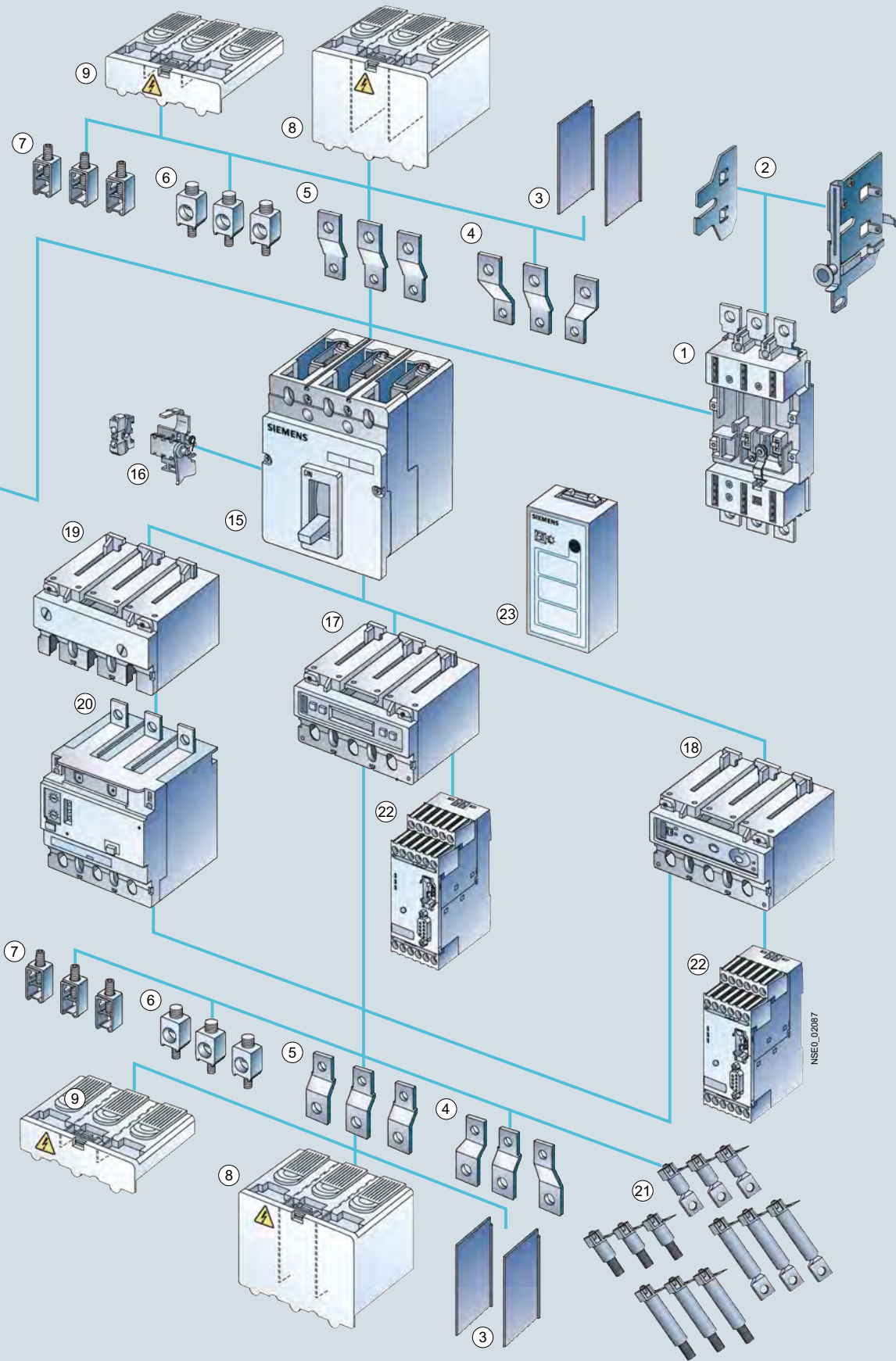
- ① Withdrawable/plug-in bases (pages 2/200 to 2/205)
- ② Side walls of withdrawable unit (pages 2/200 to 2/205)
- ③ Phase barriers (pages 2/207 to 2/212)
- ④ Flared front busbar connecting bars (pages 2/207 to 2/212)
- ⑤ Straight connecting bars (pages 2/207 to 2/212)
- ⑥ Circular conductor terminals for Al/Cu (pages 2/207 to 2/209)
- ⑦ Box terminals for Cu (pages 2/207 to 2/212)
- ⑧ Extended connection covers (terminal covers) (pages 2/207 to 2/212)
- ⑨ Standard connection covers (pages 2/207 to 2/212)
- ⑩ Masking frames/cover frames for door cut-out (pages 2/222 to 2/225)
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/196)
- ⑫ Motorized operating mechanisms (MO) (page 2/196)
- ⑬ Front-operated rotary operating mechanisms (pages 2/192 to 2/195)
- ⑭ Door-coupling rotary operating mechanisms (pages 2/192 to 2/195)
- ⑮ 3VL molded case circuit breakers (pages 2/140 to 2/183)
- ⑯ Internal accessories (pages 2/187, 2/188, 2/189 to 2/191)
- ⑰ Electronic trip units LCD ETU (pages 2/150, 2/154, 2/158, 2/174 and 2/176)
- ⑱ Electronic trip units with communication function (pages 2/142 to 2/159, 2/170 to 2/180)
- ⑲ Thermal/magnetic trip units (pages 2/140 to 2/142, 2/160, 2/164 to 2/168, 2/182)
- ⑳ RCD modules (page 2/206)
- ㉑ Rear terminals, flat and round (pages 2/207 to 2/212)
- ㉒ COM20/21 communication module for the PROFIBUS DP/MODBUS (page 2/221)
- ㉓ Battery power supplies with test function for Electronic Trip Units (pages 2/214 to 2/218)

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General data

Benefits

- The compact design of the 3VL molded case circuit breakers coupled with excellent characteristics fulfills the high demands of today's electrical distribution systems.
- These circuit breakers offer a broad product range, improved technology, space savings and easy operation.
- They are available both in thermal-magnetic (16 A to 630 A) and in electronic versions (63 A to 1600 A).

Communication

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of start-up, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management

Measured values are the basis for efficient load management, for drawing up power demand profiles and for assigning power to cost centers.

Communication:

- For molded case circuit breakers with communication function, [see pages 2/142 to 2/159, 2/170 to 2/159](#).
- For communication accessories, [see page 2/221](#).
- For more information, [see also chapter "Measuring Devices and Power Monitoring"](#) and [chapter "Software"](#).

Application

The different versions of 3VL molded case circuit breakers are suitable for the following applications:

- Incoming and outgoing circuit breakers in distribution systems
- Switching and protection devices for motors, transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms and terminal covers.

The 3VL molded case circuit breakers are available in the following versions:

1. For line protection (in 3- and 4-pole versions)
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For motor protection (in 3-pole version)
The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The circuit breakers for motor protection are susceptible to phase failure and feature an adjustable trip class. The Electronic Trip Units operate with a microprocessor.
3. For starter combinations (in 3-pole version)
These circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of motor starter protectors, overload relays and motor contactors. These circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
4. As non-automatic air circuit breakers (in 3 and 4-pole versions)
These circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system, eliminating the need for back-up fuses.

Breaking capacity

- N** Circuit breakers with standard breaking capacity N (I_{cu} up to 55 kA at 415 V)
- H** Circuit breakers with high breaking capacity H (I_{cu} up to 70 kA at 415 V)
- L** Circuit breakers with very high breaking capacity L (I_{cu} up to 100 kA at 415 V)

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Standards and specifications

3VL molded case circuit breakers comply with:

IEC 60947-1, EN 60947-1,
VDE 0660-100,
IEC 60947-2, EN 60947-2,
VDE 0660-101.

Isolating features according to IEC 60947-2, EN 60947-2.

Means of disconnection (main disconnecting means) according to EN 60204 (VDE 0113).

The 3VL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow) and terminal covers.

Please contact Siemens for details of other standards.

The Electronic Trip Units of the circuit breakers for motor protection also comply with IEC 60947-4-1, VDE 0660-102.

VL160X to VL400 circuit breakers can be equipped with a 3VL RCD module. They therefore comply with IEC 60947-2 Annex 5.

The 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class 5 (equivalent to CISPR 11) with regard to electromagnetic compatibility.

Operating conditions

The 3VL molded case circuit breakers are designed for operation in enclosed areas.

Suitable enclosures must be provided for operation in areas with severe ambient conditions (such as dust, caustic vapors, hazardous gases).

The incoming and outgoing terminals for the circuit breaker can be freely selected. The electrical data remains unaffected.

IE3 ready

As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

For use of 3VL molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, [see "Configuration Manual for SIRIUS Controls with IE3 Motors"](#), at <https://support.industry.siemens.com/cs/ww/en/view/94770820>.

RCD modules

The RCD module is designed for retrofitting to the circuit breaker. It can also be retrofitted by the customer.

The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

All 3VL molded case circuit breakers with RCD modules are available with auxiliary switches, alarm switches, undervoltage and shunt releases.

Protection of plant and equipment against overload or damage by ground faults (ground-fault protection).

The RCD module trips the circuit breaker through vectorial summation current formation for all phase currents if the vectorial sum of the currents in the poles (= the ground fault current) overshoots the pre-set response and delay time values. AC currents and pulsating DC currents are measured (CBR, design A according to EN 60947-2).

Main connections, basic equipment and options

Main connections (for conductor cross-sections, [see below](#))

Circuit breakers	Connection overview and further options				
	Box terminals	Screw terminals with metric thread for flat connection	Circular conductor terminal/multiple feed-in terminals	Rear connections	Front-accessible connecting bars
VL160X	□	□	x	x	x
VL160	□	□	x	x	x
VL250	□	□	x	x	x
VL400	x	○	x ²⁾³⁾	x	x
VL630	x ¹⁾	○	x ²⁾	x	x
VL800	--	○	x ²⁾	x	x
VL1250	--	○	x ²⁾	x	x
VL1600	--	x	--	x	○

- Scope of supply
 □ Optional scope of supply
 x Available
 -- Not available

- ¹⁾ Connecting terminal plate for flexible busbar; not for 690 V AC/600 V DC.
²⁾ Multiple feed-in terminal.
³⁾ Circular conductor terminal also available.

Conductor cross-sections

Type		VL160X 3VL1	VL160 3VL2	VL250 3VL3	VL400 3VL4	VL630 3VL5	VL800 3VL6	VL1250 3VL7	VL1600 3VL8
Conductor cross-sections									
Box terminal ¹⁾									
• Solid or stranded cable • Finely stranded with end sleeve • Finely stranded without end sleeve	Copper only	mm ²	2.5 ... 95	2.5 ... 95	25 ... 185	50 ... 300	--	--	--
		mm ²	2.5 ... 50	2.5 ... 50	25 ... 120	50 ... 240	--	--	--
		mm ²	2.5 ... 70	2.5 ... 70	25 ... 150	50 ... 240	--	--	--
• Flexible busbar		mm	12 x 10	12 x 10	17 x 10	25 x 10	--	--	--
Connecting terminal plate for flexible busbar ²⁾		mm	--	--	--	2 units 10 x 32	--	--	--
Circular conductor terminal for cable ¹⁾									
• Solid or stranded cable - With terminal cover • Finely stranded with end sleeve	Cu or Al	mm ²	16 ... 70	16 ... 70	25 ... 185	50 ... 300	--	--	--
	Cu or Al	mm ²	16 ... 150	16 ... 150	120 ... 240	--	--	--	--
		mm ²	10 ... 50	10 ... 50	25 ... 120	50 ... 240	--	--	--
Multiple feed-in terminal ¹⁾									
• Solid or stranded cable - With terminal cover	Cu or Al	mm ²	--	--	2 units 50 ... 120	2 units 50 ... 240	3 units 50 ... 240	4 units 50 ... 240	--
		mm ²	--	--	2 units 70 ... 300	--	--	--	--
• Finely stranded with end sleeve		mm ²	--	--	2 units 50 ... 95	2 units 50 ... 185	3 units 50 ... 185	4 units 50 ... 185	--
• Direct connection of busbars	Cu or Al	mm	17 x 7	22 x 7	24 x 7	32 x 10	40 x 10	2 x 40 x 10	2 x 50 x 10
• Screw for connection with screw terminal		M6	M6	M8	M8	M6	M8	M8	--
Conductor cross-sections for control circuits with terminal connection									
Screw terminals									
• Solid • Finely stranded with end sleeve		mm ²	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5
		mm ²	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0

¹⁾ Cross-sections according to IEC 60999.

²⁾ Not for 690 V AC/600 V DC.

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General data

VL160 to VL1600 trip units – functional overview

Article No. supplement	Releases	Line protection	Line/generator protection	Motor protection	Starter protection	Non-automatic circuit breakers	Function	Setting options							
								L Overload protection		S ¹⁾ Short-circuit protection (short-time delayed)		I ¹⁾ Short-circuit protection (instantaneous)		G Ground-fault protection	
								$I_r = \times I_n$	$I_{sd} = \times I_r$	t_{sd} [s]	$I_l = \times I_n$	$I_g = \times I_n$	t_g [s]		
DK	M	--	--	--	✓	--	I	--	--	--	7 ... 15	--	--		
DE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--		
EE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--		
DA	TM ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--		
DD	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 ⁴⁾	--	--		
DC	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--		
EH	TM ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--		
EJ	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--		
EA/EL	TM ²⁾	✓	--	--	--	--	LIN	1	--	--	9 ... 18 ⁴⁾	--	--		
EC	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--		
EM	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--		
SP	ETU10M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
MP	ETU10M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
SB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
MB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
LB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
TA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
NA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
LA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--		
TB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
NB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
SL	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
ML	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
SF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
MF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
TN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
NN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3		
SE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
ME	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
LE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
TE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
NE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
TF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
NF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
LF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--		
SG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
MG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
SH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
MH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
TH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
NH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3		
SS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
MS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
LS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--		
UP	LCD ETU40M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--		
UH	LCD ETU40	--	✓	--	--	--	LI, LS, LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--		
UJ	LCD ETU40	--	✓	--	--	--	LI, LSI, LIN, LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--		
UL	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		
UM	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		
UN	LCD ETU42	--	✓	--	--	--	LSIG, LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5		

✓ Function is available.

-- Function not available.

¹⁾ Size dependent.

²⁾ TM up to $I_n = 630$ A.

³⁾ Motor protection up to $I_n = 500$ A.

⁴⁾ Fixed.

Article No. supplement	Releases	Thermal image	Phase failure	Communication-capable	Ground-fault protection	Number of poles	N-pole protected ¹⁾	I^2t (ON/OFF)	Trip class (t_c)	Time-lag class (I_R)	Thermal-magnetic overcurrent releases	Magnetic releases	Electronic Trip Unit	LCD display
DK	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
DE	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
EE	M	--	--	--	--	4	--	--	--	--	--	✓	--	--
DA	TM ²⁾	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DD	TM ²⁾	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DC	TM ²⁾	✓	--	--	--	3	--	--	--	--	✓	--	--	--
EH	TM ²⁾	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EJ	TM ²⁾	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EA/EL	TM ²⁾	✓	--	--	--	4	100%	--	--	--	✓	--	--	--
EC	TM ²⁾	✓	--	--	--	4	60%	--	--	--	✓	--	--	--
EM	TM ²⁾	✓	--	--	--	4	100%	--	--	--	✓	--	--	--
SP	ETU10M ³⁾	✓	40% I_R	--	--	3	--	--	10	--	--	--	✓	--
MP	ETU10M ³⁾	✓	40% I_R	✓ ⁴⁾	--	3	--	--	10	--	--	--	✓	--
SB	ETU10	✓	--	--	--	3	--	--	--	2.5 ... 30	--	--	✓	--
MB	ETU10	✓	--	✓ ⁴⁾	--	3	--	--	--	2.5 ... 30	--	--	✓	--
LB	ETU10	✓	--	--	--	3	--	--	--	2.5 ... 30	--	--	✓	--
TA	ETU10	✓	--	--	--	4	50/100%	--	--	2.5 ... 30	--	--	✓	--
NA	ETU10	✓	--	✓ ⁴⁾	--	4	50/100%	--	--	2.5 ... 30	--	--	✓	--
LA	ETU10	✓	--	--	--	4	50/100%	--	--	2.5 ... 30	--	--	✓	--
TB	ETU10	✓	--	--	--	4	--	--	--	2.5 ... 30	--	--	✓	--
NB	ETU10	✓	--	✓ ⁴⁾	--	4	--	--	--	2.5 ... 30	--	--	✓	--
SL	ETU12	✓	--	--	①	3	--	--	--	2.5 ... 30	--	--	✓	--
ML	ETU12	✓	--	✓ ⁴⁾	①	3	--	--	--	2.5 ... 30	--	--	✓	--
SF	ETU12	✓	--	--	②	3	--	--	--	2.5 ... 30	--	--	✓	--
MF	ETU12	✓	--	✓ ⁴⁾	②	3	--	--	--	2.5 ... 30	--	--	✓	--
TN	ETU12	✓	--	--	②	4	50/100%	--	--	2.5 ... 30	--	--	✓	--
NN	ETU12	✓	--	✓ ⁴⁾	②	4	50/100%	--	--	2.5 ... 30	--	--	✓	--
SE	ETU20	✓	--	--	--	3	--	✓	--	--	--	--	✓	--
ME	ETU20	✓	--	✓ ⁴⁾	--	3	--	✓	--	--	--	--	✓	--
LE	ETU20	✓	--	--	--	3	--	✓	--	--	--	--	✓	--
TE	ETU20	✓	--	--	--	4	--	✓	--	--	--	--	✓	--
NE	ETU20	✓	--	✓ ⁴⁾	--	4	--	✓	--	--	--	--	✓	--
TF	ETU20	✓	--	--	--	4	50/100%	✓	--	--	--	--	✓	--
NF	ETU20	✓	--	✓ ⁴⁾	--	4	50/100%	✓	--	--	--	--	✓	--
LF	ETU20	✓	--	--	--	4	50/100%	✓	--	--	--	--	✓	--
SG	ETU22	✓	--	--	①	3	--	✓	--	--	--	--	✓	--
MG	ETU22	✓	--	✓ ⁴⁾	①	3	--	✓	--	--	--	--	✓	--
SH	ETU22	✓	--	--	②	3	--	✓	--	--	--	--	✓	--
MH	ETU22	✓	--	✓ ⁴⁾	②	3	--	✓	--	--	--	--	✓	--
TH	ETU22	✓	--	--	②	4	50/100%	✓	--	--	--	--	✓	--
NH	ETU22	✓	--	✓ ⁴⁾	②	4	50/100%	✓	--	--	--	--	✓	--
SS	ETU30M ³⁾	✓	40% I_R	--	--	3	--	--	10, 20, 30	--	--	--	✓	--
MS	ETU30M ³⁾	✓	40% I_R	✓ ⁴⁾	--	3	--	--	10, 20, 30	--	--	--	✓	--
LS	ETU30M ³⁾	✓	40% I_R	--	--	3	--	--	10, 20, 30	--	--	--	✓	--
UP	LCD ETU40M ³⁾	✓	5 ... 50% I_R	✓ ⁴⁾	--	3	--	--	5, 10, 15, 20, 30	--	--	--	✓	✓
UH	LCD ETU40	✓	--	✓ ⁴⁾	--	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UJ	LCD ETU40	✓	--	✓ ⁴⁾	--	4	50 ... 100%, OFF	✓	--	2.5 ... 30	--	--	✓	✓
UL	LCD ETU42	✓	--	✓ ⁴⁾	①	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UM	LCD ETU42	✓	--	✓ ⁴⁾	①/③	3	--	✓	--	2.5 ... 30	--	--	✓	✓
UN	LCD ETU42	✓	--	✓ ⁴⁾	②	4	50 ... 100%, OFF	✓	--	2.5 ... 30	--	--	✓	✓

Ground-fault protection

- ① Vectorial summation current formation (3-wire system)
 ② Vectorial summation current formation (4-wire system)
 ③ Direct detection of ground-fault current in the neutral point of the transformer

✓ Function is available.

-- Function not available.

1) Size dependent.

2) TM up to $I_n = 630$ A.3) Motor protection up to $I_n = 500$ A.

4) With COM20/COM21.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL1796-2DA3□-□□□□
3VL1702-2DA3□-□□□□
3VL1725-2DA3□-□□□□
3VL1703-2DA3□-□□□□
3VL1704-2DA3□-□□□□
3VL1705-2DA3□-□□□□
3VL1706-2DA3□-□□□□
3VL1708-2DA3□-□□□□
3VL1710-2DA3□-□□□□
3VL1712-2DA3□-□□□□
3VL1716-2DA3□-□□□□

1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC

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3
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3VL1702-2DD3□-□□□□
3VL1703-2DD3□-□□□□
3VL1704-2DD3□-□□□□
3VL1705-2DD3□-□□□□
3VL1706-2DD3□-□□□□
3VL1708-2DD3□-□□□□
3VL1710-2DD3□-□□□□
3VL1712-2DD3□-□□□□
3VL1716-2DD3□-□□□□

1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC

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Molded Case Circuit Breakers

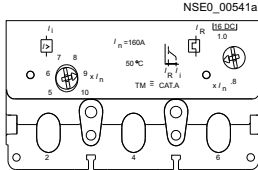
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_I	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Article No.	Basic price per PU/ Price see page 2/162	PU (UNIT, SET, M)	PS	PG
	A	A	A	d		Article No. supplement, see page 2/186; www.siemens.com/product?ArticleNo.				

3-pole, fixed-mounted, for line protection, 50 A to 630 A, thermal-magnetic overcurrent releases LI



Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases

VL160/ 3VL2	50 63 80 100 125 160	40 ... 50 50 ... 63 63 ... 80 80 ... 100 100 ... 125 125 ... 160	300 ... 600 300 ... 600 400 ... 800 500 ... 1000 625 ... 1250 800 ... 1600		3VL2705-1DC3 □-□□□□ 3VL2706-1DC3 □-□□□□ 3VL2708-1DC3 □-□□□□ 3VL2710-1DC3 □-□□□□ 3VL2712-1DC3 □-□□□□ 3VL2716-1DC3 □-□□□□			1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC 1CC 1CC
VL250/ 3VL3	200 250	160 ... 200 200 ... 250	1000 ... 2000 1250 ... 2500		3VL3720-1DC3 □-□□□□ 3VL3725-1DC3 □-□□□□			1 1	1 unit 1 unit	1CC 1CC

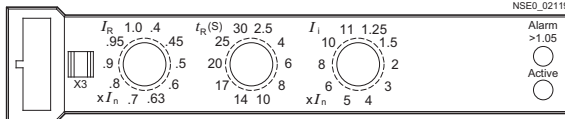
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	200 250 315 400	160 ... 200 200 ... 250 250 ... 315 320 ... 400	1000 ... 2000 1250 ... 2500 1575 ... 3150 2000 ... 4000		3VL4720-1DC36 □-□□□□ 3VL4725-1DC36 □-□□□□ 3VL4731-1DC36 □-□□□□ 3VL4740-1DC36 □-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC
VL630/3VL5	315 400 500 630	250 ... 315 320 ... 400 400 ... 500 500 ... 630	1575 ... 3150 2000 ... 4000 2500 ... 5000 3150 ... 6300		3VL5731-1DC36 □-□□□□ 3VL5740-1DC36 □-□□□□ 3VL5750-1DC36 □-□□□□ 3VL5763-1DC36 □-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC

3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI



ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$		3VL2706-1 □□3□-□□□□ 3VL2710-1 □□3□-□□□□ 3VL2716-1 □□3□-□□□□			1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	200 250	80 ... 200 100 ... 250	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$		3VL3720-1 □□3□-□□□□ 3VL3725-1 □□3□-□□□□			1 1	1 unit 1 unit	1CC 1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$		3VL4731-1 □□36-□□□□ 3VL4740-1 □□36-□□□□			1 1	1 unit 1 unit	1CC 1CC
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$		3VL5763-1 □□36-□□□□			1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$		3VL6780-1 □□36-□□□□			1	1 unit	1CC
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$		3VL7710-1 □□36-□□□□ 3VL7712-1 □□36-□□□□			1 1	1 unit 1 unit	1CC 1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$1.25 \dots 9 \times I_n$		3VL8716-1 □□30-□□□□			1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SB
MB
LB

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
d	Article No.	Basic price per PU/ Price see page 2/162	PU (UNIT, SET, M)	PS	PG	d	Article No.	Basic price per PU/ Price see page 2/162	PU (UNIT, SET, M)	PS	PG		

3VL2705-2DC3□-□□□□	1	1 unit	1CC			3VL2705-3DC3□-□□□□	1	1 unit	1CC		
3VL2706-2DC3□-□□□□	1	1 unit	1CC			3VL2706-3DC3□-□□□□	1	1 unit	1CC		
3VL2708-2DC3□-□□□□	1	1 unit	1CC			3VL2708-3DC3□-□□□□	1	1 unit	1CC		
3VL2710-2DC3□-□□□□	1	1 unit	1CC			3VL2710-3DC3□-□□□□	1	1 unit	1CC		
3VL2712-2DC3□-□□□□	1	1 unit	1CC			3VL2712-3DC3□-□□□□	1	1 unit	1CC		
3VL2716-2DC3□-□□□□	1	1 unit	1CC			3VL2716-3DC3□-□□□□	1	1 unit	1CC		
3VL3720-2DC3□-□□□□	1	1 unit	1CC			3VL3720-3DC3□-□□□□	1	1 unit	1CC		
3VL3725-2DC3□-□□□□	1	1 unit	1CC			3VL3725-3DC3□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2DC36-□□□□	1	1 unit	1CC			3VL4720-3DC36-□□□□	1	1 unit	1CC		
3VL4725-2DC36-□□□□	1	1 unit	1CC			3VL4725-3DC36-□□□□	1	1 unit	1CC		
3VL4731-2DC36-□□□□	1	1 unit	1CC			3VL4731-3DC36-□□□□	1	1 unit	1CC		
3VL4740-2DC36-□□□□	1	1 unit	1CC			3VL4740-3DC36-□□□□	1	1 unit	1CC		
3VL5731-2DC36-□□□□	1	1 unit	1CC			3VL5731-3DC36-□□□□	1	1 unit	1CC		
3VL5740-2DC36-□□□□	1	1 unit	1CC			3VL5740-3DC36-□□□□	1	1 unit	1CC		
3VL5750-2DC36-□□□□	1	1 unit	1CC			3VL5750-3DC36-□□□□	1	1 unit	1CC		
3VL5763-2DC36-□□□□	1	1 unit	1CC			3VL5763-3DC36-□□□□	1	1 unit	1CC		

3VL2706-2□□3□-□□□□	1	1 unit	1CC			3VL2706-3□□3□-□□□□	1	1 unit	1CC		
3VL2710-2□□3□-□□□□	1	1 unit	1CC			3VL2710-3□□3□-□□□□	1	1 unit	1CC		
3VL2716-2□□3□-□□□□	1	1 unit	1CC			3VL2716-3□□3□-□□□□	1	1 unit	1CC		
3VL3720-2□□3□-□□□□	1	1 unit	1CC			3VL3720-3□□3□-□□□□	1	1 unit	1CC		
3VL3725-2□□3□-□□□□	1	1 unit	1CC			3VL3725-3□□3□-□□□□	1	1 unit	1CC		

3
63
6

3VL4731-2□□36-□□□□	1	1 unit	1CC			3VL4731-3□□36-□□□□	1	1 unit	1CC		
3VL4740-2□□36-□□□□	1	1 unit	1CC			3VL4740-3□□36-□□□□	1	1 unit	1CC		
3VL5763-2□□36-□□□□	1	1 unit	1CC			3VL5763-3□□36-□□□□	1	1 unit	1CC		
3VL6780-2□□36-□□□□	1	1 unit	1CC			3VL6780-3□□36-□□□□	1	1 unit	1CC		
3VL7710-2□□36-□□□□	1	1 unit	1CC			3VL7710-3□□36-□□□□	1	1 unit	1CC		
3VL7712-2□□36-□□□□	1	1 unit	1CC			3VL7712-3□□36-□□□□	1	1 unit	1CC		
3VL8716-2□□30-□□□□	1	1 unit	1CC			3VL8716-3□□30-□□□□	1	1 unit	1CC		

SB
MB
LBSB
MB
LB

Molded Case Circuit Breakers

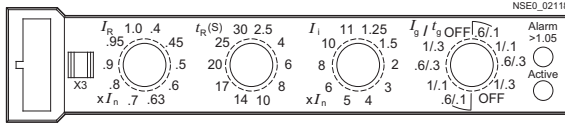
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N				
See "Overview".						Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d	Article No. supplement, see page 2/186; www.siemens.com/product?ArticleNo.				

3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



ETU12, LIG function for 3-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground-fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3725-1□□3□-□□□□	1	1 unit	1CC

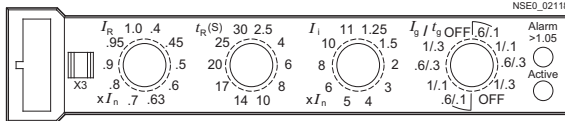
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
 - Connection with screw terminal¹⁾
- 3**
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4731-1□□36-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4740-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL5763-1□□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL6780-1□□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7710-1□□36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7712-1□□36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL8716-1□□30-□□□□	1	1 unit	1CC

- Without communication preparation
 - With communication preparation
- SL**
ML

3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



ETU12, LIG function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, external current transformers required in addition, see page 2/220. Ground fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3725-1□□3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
 - Connection with screw terminal¹⁾
- 3**
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4731-1□□36-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4740-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL5763-1□□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL6780-1□□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7710-1□□36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7712-1□□36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL8716-1□□30-□□□□	1	1 unit	1CC

- Without communication preparation
 - With communication preparation
- SF**
MF

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
d	Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG	d	Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG		

3VL2706-2□□3□-□□□□	1	1 unit	1CC			3VL2706-3□□3□-□□□□	1	1 unit	1CC		
3VL2710-2□□3□-□□□□	1	1 unit	1CC			3VL2710-3□□3□-□□□□	1	1 unit	1CC		
3VL2716-2□□3□-□□□□	1	1 unit	1CC			3VL2716-3□□3□-□□□□	1	1 unit	1CC		
3VL3720-2□□3□-□□□□	1	1 unit	1CC			3VL3720-3□□3□-□□□□	1	1 unit	1CC		
3VL3725-2□□3□-□□□□	1	1 unit	1CC			3VL3725-3□□3□-□□□□	1	1 unit	1CC		

3
6

3
6

3VL4731-2□□36-□□□□	1	1 unit	1CC			3VL4731-3□□36-□□□□	1	1 unit	1CC		
3VL4740-2□□36-□□□□	1	1 unit	1CC			3VL4740-3□□36-□□□□	1	1 unit	1CC		
3VL5763-2□□36-□□□□	1	1 unit	1CC			3VL5763-3□□36-□□□□	1	1 unit	1CC		
3VL6780-2□□36-□□□□	1	1 unit	1CC			3VL6780-3□□36-□□□□	1	1 unit	1CC		
3VL7710-2□□36-□□□□	1	1 unit	1CC			3VL7710-3□□36-□□□□	1	1 unit	1CC		
3VL7712-2□□36-□□□□	1	1 unit	1CC			3VL7712-3□□36-□□□□	1	1 unit	1CC		
3VL8716-2□□30-□□□□	1	1 unit	1CC			3VL8716-3□□30-□□□□	1	1 unit	1CC		

SL
ML

SL
ML

3VL2706-2□□3□-□□□□	1	1 unit	1CC			3VL2706-3□□3□-□□□□	1	1 unit	1CC		
3VL2710-2□□3□-□□□□	1	1 unit	1CC			3VL2710-3□□3□-□□□□	1	1 unit	1CC		
3VL2716-2□□3□-□□□□	1	1 unit	1CC			3VL2716-3□□3□-□□□□	1	1 unit	1CC		
3VL3720-2□□3□-□□□□	1	1 unit	1CC			3VL3720-3□□3□-□□□□	1	1 unit	1CC		
3VL3725-2□□3□-□□□□	1	1 unit	1CC			3VL3725-3□□3□-□□□□	1	1 unit	1CC		

3
6

3
6

3VL4731-2□□36-□□□□	1	1 unit	1CC			3VL4731-3□□36-□□□□	1	1 unit	1CC		
3VL4740-2□□36-□□□□	1	1 unit	1CC			3VL4740-3□□36-□□□□	1	1 unit	1CC		
3VL5763-2□□36-□□□□	1	1 unit	1CC			3VL5763-3□□36-□□□□	1	1 unit	1CC		
3VL6780-2□□36-□□□□	1	1 unit	1CC			3VL6780-3□□36-□□□□	1	1 unit	1CC		
3VL7710-2□□36-□□□□	1	1 unit	1CC			3VL7710-3□□36-□□□□	1	1 unit	1CC		
3VL7712-2□□36-□□□□	1	1 unit	1CC			3VL7712-3□□36-□□□□	1	1 unit	1CC		
3VL8716-2□□30-□□□□	1	1 unit	1CC			3VL8716-3□□30-□□□□	1	1 unit	1CC		

SF
MF

SF
MF

Communication:

- For accessories, see page 2/221.

- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Minimum order quantity (PS) or a multiple thereof can be ordered.

Molded Case Circuit Breakers

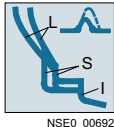
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

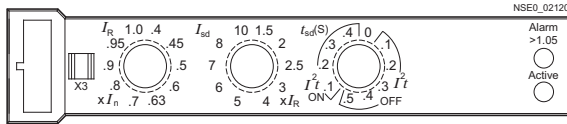
2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG
A	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSI



NSE0_00692



NSE0_02120

ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay ($t_{sd} = 0$ to 0.5 s)

VL160/3VL2	63	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL3725-1□□3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL4731-1□□36-□□□□	1	1 unit	1CC
	400	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL4740-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	630	0.4 ... 1.0 × I_n	10 × I_n	1.5 ... 9 × I_R	3VL5763-1□□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	0.4 ... 1.0 × I_n	8 × I_n	1.5 ... 7 × I_R	3VL6780-1□□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL7710-1□□36-□□□□	1	1 unit	1CC
	1250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	3VL7712-1□□36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	0.4 ... 1.0 × I_n	9 × I_n	1.5 ... 8 × I_R	3VL8716-1□□30-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SE
ME
LE

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)					
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG

3VL2706-2□□3□-□□□□	1	1 unit	1CC	3VL2706-3□□3□-□□□□	1	1 unit	1CC
3VL2710-2□□3□-□□□□	1	1 unit	1CC	3VL2710-3□□3□-□□□□	1	1 unit	1CC
3VL2716-2□□3□-□□□□	1	1 unit	1CC	3VL2716-3□□3□-□□□□	1	1 unit	1CC
3VL3720-2□□3□-□□□□	1	1 unit	1CC	3VL3720-3□□3□-□□□□	1	1 unit	1CC
3VL3725-2□□3□-□□□□	1	1 unit	1CC	3VL3725-3□□3□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	3VL4731-3□□36-□□□□	1	1 unit	1CC
3VL4740-2□□36-□□□□	1	1 unit	1CC	3VL4740-3□□36-□□□□	1	1 unit	1CC
3VL5763-2□□36-□□□□	1	1 unit	1CC	3VL5763-3□□36-□□□□	1	1 unit	1CC
3VL6780-2□□36-□□□□	1	1 unit	1CC	3VL6780-3□□36-□□□□	1	1 unit	1CC
3VL7710-2□□36-□□□□	1	1 unit	1CC	3VL7710-3□□36-□□□□	1	1 unit	1CC
3VL7712-2□□36-□□□□	1	1 unit	1CC	3VL7712-3□□36-□□□□	1	1 unit	1CC
3VL8716-2□□30-□□□□	1	1 unit	1CC	3VL8716-3□□30-□□□□	1	1 unit	1CC

SE
ME
LESE
ME
LE

Molded Case Circuit Breakers

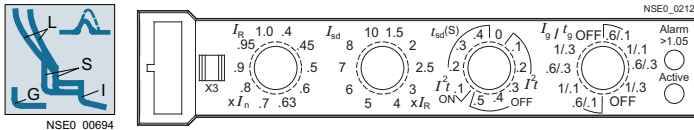
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_I	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG

3-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



ETU22, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, ground-fault delay $t_g = 0.1 \dots 0.3$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s, ground fault function (G) can be switched off.

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF $0.6 \dots 1 \times I_n$, OFF $0.6 \dots 1 \times I_n$, OFF	3VL2706-1□□3□-□□□□ 3VL2710-1□□3□-□□□□ 3VL2716-1□□3□-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF $0.6 \dots 1 \times I_n$, OFF	3VL3720-1□□3□-□□□□ 3VL3725-1□□3□-□□□□	1 1	1 unit 1 unit	1CC 1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF $0.6 \dots 1 \times I_n$, OFF	3VL4731-1□□36-□□□□ 3VL4740-1□□36-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL5763-1□□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL6780-1□□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF $0.6 \dots 1 \times I_n$, OFF	3VL7710-1□□36-□□□□ 3VL7712-1□□36-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL8716-1□□30-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

SG
MG

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				
	Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG		Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3VL2706-2□□3□-□□□□	1	1 unit	1CC	3VL2706-3□□3□-□□□□	1	1 unit	1CC
3VL2710-2□□3□-□□□□	1	1 unit	1CC	3VL2710-3□□3□-□□□□	1	1 unit	1CC
3VL2716-2□□3□-□□□□	1	1 unit	1CC	3VL2716-3□□3□-□□□□	1	1 unit	1CC
3VL3720-2□□3□-□□□□	1	1 unit	1CC	3VL3720-3□□3□-□□□□	1	1 unit	1CC
3VL3725-2□□3□-□□□□	1	1 unit	1CC	3VL3725-3□□3□-□□□□	1	1 unit	1CC

3
6

3
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	3VL4731-3□□36-□□□□	1	1 unit	1CC
3VL4740-2□□36-□□□□	1	1 unit	1CC	3VL4740-3□□36-□□□□	1	1 unit	1CC
3VL5763-2□□36-□□□□	1	1 unit	1CC	3VL5763-3□□36-□□□□	1	1 unit	1CC
3VL6780-2□□36-□□□□	1	1 unit	1CC	3VL6780-3□□36-□□□□	1	1 unit	1CC
3VL7710-2□□36-□□□□	1	1 unit	1CC	3VL7710-3□□36-□□□□	1	1 unit	1CC
3VL7712-2□□36-□□□□	1	1 unit	1CC	3VL7712-3□□36-□□□□	1	1 unit	1CC
3VL8716-2□□30-□□□□	1	1 unit	1CC	3VL8716-3□□30-□□□□	1	1 unit	1CC

SG
MG

SG
MG

Molded Case Circuit Breakers

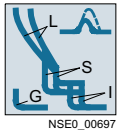
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

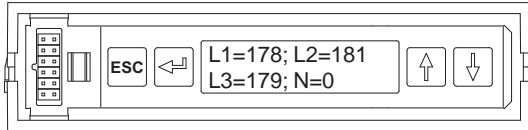
2

Type	Rated current I_n A	Current setting of the inverse-time delayed overcurrent protection "L" I_R A	Operating current of the instantaneous short-circuit protection "I" I_I A	S function, short-circuit protection (short-time delayed) S A	Ground-fault protection "G" I_g A	SD d	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
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3-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



NSE0_00697



NSE0_02129

LCD-ETU42, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground-fault delay $t_{fg} = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

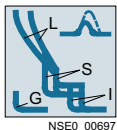
VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2706-1UL30-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2710-1UL30-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2716-1UL30-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3720-1UL30-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3725-1UL30-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

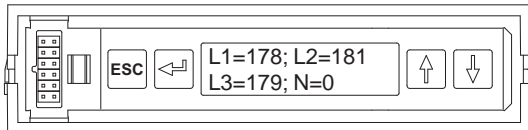
- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4731-1UL36-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4740-1UL36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL5763-1UL36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL6780-1UL36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7710-1UL36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7712-1UL36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	3VL8716-1UL30-□□□□	1	1 unit	1CC



NSE0_00697



NSE0_02129

LCD-ETU42, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases. External current transformers required in addition, see page 2/220. Vectorial summation current formation, ground-fault delay $t_{fg} = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2706-1UM30-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2710-1UM30-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2716-1UM30-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3720-1UM30-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3725-1UM30-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4731-1UM36-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4740-1UM36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL5763-1UM36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL6780-1UM36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7710-1UM36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7712-1UM36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	3VL8716-1UM30-□□□□	1	1 unit	1CC

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H			(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L			(L)	
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL2706-2UL3□-□□□□	1	1 unit	1CC			3VL2706-3UL3□-□□□□	1	1 unit	1CC	
3VL2710-2UL3□-□□□□	1	1 unit	1CC			3VL2710-3UL3□-□□□□	1	1 unit	1CC	
3VL2716-2UL3□-□□□□	1	1 unit	1CC			3VL2716-3UL3□-□□□□	1	1 unit	1CC	
3VL3720-2UL3□-□□□□	1	1 unit	1CC			3VL3720-3UL3□-□□□□	1	1 unit	1CC	
3VL3725-2UL3□-□□□□	1	1 unit	1CC			3VL3725-3UL3□-□□□□	1	1 unit	1CC	

3
63
6

3VL4731-2UL36-□□□□	1	1 unit	1CC			3VL4731-3UL36-□□□□	1	1 unit	1CC	
3VL4740-2UL36-□□□□	1	1 unit	1CC			3VL4740-3UL36-□□□□	1	1 unit	1CC	
3VL5763-2UL36-□□□□	1	1 unit	1CC			3VL5763-3UL36-□□□□	1	1 unit	1CC	
3VL6780-2UL36-□□□□	1	1 unit	1CC			3VL6780-3UL36-□□□□	1	1 unit	1CC	
3VL7710-2UL36-□□□□	1	1 unit	1CC			3VL7710-3UL36-□□□□	1	1 unit	1CC	
3VL7712-2UL36-□□□□	1	1 unit	1CC			3VL7712-3UL36-□□□□	1	1 unit	1CC	
3VL8716-2UL30-□□□□	1	1 unit	1CC			3VL8716-3UL30-□□□□	1	1 unit	1CC	

3VL2706-2UM3□-□□□□	1	1 unit	1CC			3VL2706-3UM3□-□□□□	1	1 unit	1CC	
3VL2710-2UM3□-□□□□	1	1 unit	1CC			3VL2710-3UM3□-□□□□	1	1 unit	1CC	
3VL2716-2UM3□-□□□□	1	1 unit	1CC			3VL2716-3UM3□-□□□□	1	1 unit	1CC	
3VL3720-2UM3□-□□□□	1	1 unit	1CC			3VL3720-3UM3□-□□□□	1	1 unit	1CC	
3VL3725-2UM3□-□□□□	1	1 unit	1CC			3VL3725-3UM3□-□□□□	1	1 unit	1CC	

3
63
6

3VL4731-2UM36-□□□□	1	1 unit	1CC			3VL4731-3UM36-□□□□	1	1 unit	1CC	
3VL4740-2UM36-□□□□	1	1 unit	1CC			3VL4740-3UM36-□□□□	1	1 unit	1CC	
3VL5763-2UM36-□□□□	1	1 unit	1CC			3VL5763-3UM36-□□□□	1	1 unit	1CC	
3VL6780-2UM36-□□□□	1	1 unit	1CC			3VL6780-3UM36-□□□□	1	1 unit	1CC	
3VL7710-2UM36-□□□□	1	1 unit	1CC			3VL7710-3UM36-□□□□	1	1 unit	1CC	
3VL7712-2UM36-□□□□	1	1 unit	1CC			3VL7712-3UM36-□□□□	1	1 unit	1CC	
3VL8716-2UM30-□□□□	1	1 unit	1CC			3VL8716-3UM30-□□□□	1	1 unit	1CC	

Molded Case Circuit Breakers

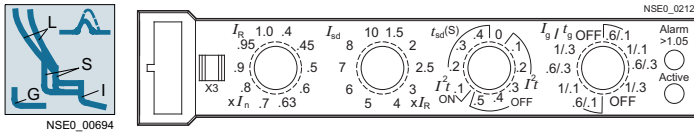
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_I	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	N			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG

3-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



ETU22, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, external current transformers required in addition, see page 2/220. ground-fault delay $t_g = 0.1 \dots 0.3$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL2706-1 □□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL2710-1 □□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL2716-1 □□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL3720-1 □□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL3725-1 □□3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL4731-1 □□36-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL4740-1 □□36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... 9 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL5763-1 □□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... 7 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL6780-1 □□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL7710-1 □□36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL7712-1 □□36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	1.5 ... 8 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL8716-1 □□30-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

SH
MH

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)					
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG

3VL2706-2□□3□-□□□□	1	1 unit	1CC	3VL2706-3□□3□-□□□□	1	1 unit	1CC
3VL2710-2□□3□-□□□□	1	1 unit	1CC	3VL2710-3□□3□-□□□□	1	1 unit	1CC
3VL2716-2□□3□-□□□□	1	1 unit	1CC	3VL2716-3□□3□-□□□□	1	1 unit	1CC
3VL3720-2□□3□-□□□□	1	1 unit	1CC	3VL3720-3□□3□-□□□□	1	1 unit	1CC
3VL3725-2□□3□-□□□□	1	1 unit	1CC	3VL3725-3□□3□-□□□□	1	1 unit	1CC
3				3			
6				6			
3VL4731-2□□36-□□□□	1	1 unit	1CC	3VL4731-3□□36-□□□□	1	1 unit	1CC
3VL4740-2□□36-□□□□	1	1 unit	1CC	3VL4740-3□□36-□□□□	1	1 unit	1CC
3VL5763-2□□36-□□□□	1	1 unit	1CC	3VL5763-3□□36-□□□□	1	1 unit	1CC
3VL6780-2□□36-□□□□	1	1 unit	1CC	3VL6780-3□□36-□□□□	1	1 unit	1CC
3VL7710-2□□36-□□□□	1	1 unit	1CC	3VL7710-3□□36-□□□□	1	1 unit	1CC
3VL7712-2□□36-□□□□	1	1 unit	1CC	3VL7712-3□□36-□□□□	1	1 unit	1CC
3VL8716-2□□30-□□□□	1	1 unit	1CC	3VL8716-3□□30-□□□□	1	1 unit	1CC
SH				SH			
MH				MH			

Molded Case Circuit Breakers

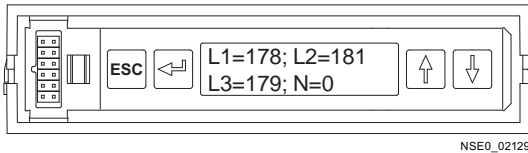
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A	A	d		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
							Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LI, LS, LSI



LCD-ETU40, LI/LS/LSI function selectable

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay ($t_{sd} = 0$ to 0.5 s)

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL2706-1UH3 □-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL2710-1UH3 □-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL2716-1UH3 □-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL3720-1UH3 □-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL3725-1UH3 □-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL4731-1UH36 -□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL4740-1UH36 -□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$	3VL5763-1UH36 -□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	3VL6780-1UH36 -□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL7710-1UH36 -□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL7712-1UH36 -□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	3VL8716-1UH30 -□□□□	1	1 unit	1CC

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H									SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L									
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG						Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG					
d	Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.									d	Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.									

3VL2706-2UH3□-□□□□	1	1 unit	1CC			3VL2706-3UH3□-□□□□	1	1 unit	1CC
3VL2710-2UH3□-□□□□	1	1 unit	1CC			3VL2710-3UH3□-□□□□	1	1 unit	1CC
3VL2716-2UH3□-□□□□	1	1 unit	1CC			3VL2716-3UH3□-□□□□	1	1 unit	1CC
3VL3720-2UH3□-□□□□	1	1 unit	1CC			3VL3720-3UH3□-□□□□	1	1 unit	1CC
3VL3725-2UH3□-□□□□	1	1 unit	1CC			3VL3725-3UH3□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2UH36-□□□□	1	1 unit	1CC			3VL4731-3UH36-□□□□	1	1 unit	1CC
3VL4740-2UH36-□□□□	1	1 unit	1CC			3VL4740-3UH36-□□□□	1	1 unit	1CC
3VL5763-2UH36-□□□□	1	1 unit	1CC			3VL5763-3UH36-□□□□	1	1 unit	1CC
3VL6780-2UH36-□□□□	1	1 unit	1CC			3VL6780-3UH36-□□□□	1	1 unit	1CC
3VL7710-2UH36-□□□□	1	1 unit	1CC			3VL7710-3UH36-□□□□	1	1 unit	1CC
3VL7712-2UH36-□□□□	1	1 unit	1CC			3VL7712-3UH36-□□□□	1	1 unit	1CC
3VL8716-2UH30-□□□□	1	1 unit	1CC			3VL8716-3UH30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

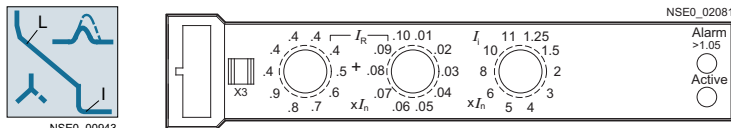
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-current delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	PU (UNIT, SET, M)	PS	PG
	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article.No.	Price, see page 2/162		

3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI



ETU10M, LI function¹⁾

With thermal image, with fixed trip class $t_C = 10$, with phase failure sensitivity 40% I_R

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	3VL3725-1□□3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

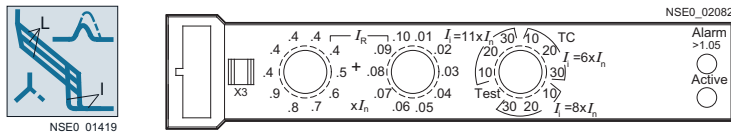
- Connection with box terminal
- Connection with screw terminal²⁾

3
6

VL400/3VL4	315	125 ... 315	1.25 ... $11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	500	200 ... 500	1.25 ... $12.5 \times I_n$	3VL5750-1□□36-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

SP
MP



ETU30M, LI function¹⁾

With thermal image, with adjustable trip class $t_C = 10, 20, 30$ with phase failure sensitivity 40% I_R

VL160/3VL2	63	25 ... 63	$6/8/11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$6/8/11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$6/8/11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$6/8/11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$6/8/11 \times I_n$	3VL3725-1□□3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal²⁾

3
6

VL400/3VL4	315	125 ... 315	$6/8/11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	500	200 ... 500	$6/8/12.5 \times I_n$	3VL5750-1□□36-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SS
MS
LS

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

- 1) For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor, see also page 2/13.
- 2) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)					
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Price, see page 2/162	PU (UNIT, SET, M)	PS	PG

3VL2706-2□□3□-□□□□	1	1 unit	1CC	3VL2706-3□□3□-□□□□	1	1 unit	1CC
3VL2710-2□□3□-□□□□	1	1 unit	1CC	3VL2710-3□□3□-□□□□	1	1 unit	1CC
3VL2716-2□□3□-□□□□	1	1 unit	1CC	3VL2716-3□□3□-□□□□	1	1 unit	1CC
3VL3720-2□□3□-□□□□	1	1 unit	1CC	3VL3720-3□□3□-□□□□	1	1 unit	1CC
3VL3725-2□□3□-□□□□	1	1 unit	1CC	3VL3725-3□□3□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	3VL4731-3□□36-□□□□	1	1 unit	1CC
3VL5750-2□□36-□□□□	1	1 unit	1CC	3VL5750-3□□36-□□□□	1	1 unit	1CC

SP
MPSP
MP

3VL2706-2□□3□-□□□□	1	1 unit	1CC	3VL2706-3□□3□-□□□□	1	1 unit	1CC
3VL2710-2□□3□-□□□□	1	1 unit	1CC	3VL2710-3□□3□-□□□□	1	1 unit	1CC
3VL2716-2□□3□-□□□□	1	1 unit	1CC	3VL2716-3□□3□-□□□□	1	1 unit	1CC
3VL3720-2□□3□-□□□□	1	1 unit	1CC	3VL3720-3□□3□-□□□□	1	1 unit	1CC
3VL3725-2□□3□-□□□□	1	1 unit	1CC	3VL3725-3□□3□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2□□36-□□□□	1	1 unit	1CC	3VL4731-3□□36-□□□□	1	1 unit	1CC
3VL5750-2□□36-□□□□	1	1 unit	1CC	3VL5750-3□□36-□□□□	1	1 unit	1CC

SS
MS
LSSS
MS
LS

Molded Case Circuit Breakers

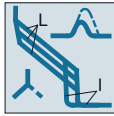
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

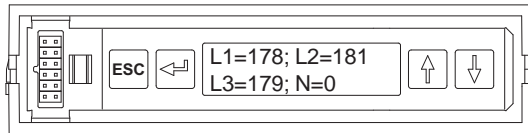
2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3-pole, fixed-mounted, for motor protection,
63 A to 500 A, Electronic Trip Units LI



NSE0_01419



NSE0_02129

LCD-ETU40M, LI function¹⁾

With thermal image, with adjustable trip class $t_C = 5, 10, 15, 20, 30$ with phase failure sensitivity adjustable in steps 5 ... 50% I_R

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	3VL2706-1UP3□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL2710-1UP3□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL2716-1UP3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL3720-1UP3□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	3VL3725-1UP3□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal²⁾

3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	3VL4731-1UP36-□□□□	1	1 unit	1CC
VL630/3VL5	500	250 ... 500	1.25 ... $12.5 \times I_n$	3VL5750-1UP36-□□□□	1	1 unit	1CC

¹⁾ For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor, see also page 2/13.

²⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)						
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL2706-2UP3□-□□□□	1	1 unit	1CC	3VL2706-3UP3□-□□□□	1	1 unit	1CC
3VL2710-2UP3□-□□□□	1	1 unit	1CC	3VL2710-3UP3□-□□□□	1	1 unit	1CC
3VL2716-2UP3□-□□□□	1	1 unit	1CC	3VL2716-3UP3□-□□□□	1	1 unit	1CC
3VL3720-2UP3□-□□□□	1	1 unit	1CC	3VL3720-3UP3□-□□□□	1	1 unit	1CC
3VL3725-2UP3□-□□□□	1	1 unit	1CC	3VL3725-3UP3□-□□□□	1	1 unit	1CC
↑ 3 6				↑ 3 6			
3VL4731-2UP36-□□□□	1	1 unit	1CC	3VL4731-3UP36-□□□□	1	1 unit	1CC
3VL5750-2UP36-□□□□	1	1 unit	1CC	3VL5750-3UP36-□□□□	1	1 unit	1CC

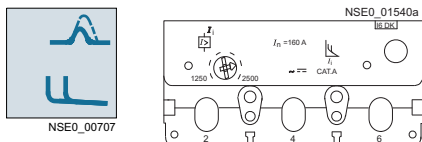
Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

Type	Rated current I_n	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	PU (UNIT, SET, M)	PS	PG
	A		d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Basic price per PU		

3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic trip unit I



Starter protection, M, I function¹⁾

Without thermal overcurrent release, with adjustable short-circuit release

VL160/3VL2	63 100 160	450 ... 900 750 ... 1500 1250 ... 2500	3VL2706-1DK3 □-□□□□ 3VL2710-1DK3 □-□□□□ 3VL2716-1DK3 □-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	250	1750 ... 3500	3VL3725-1DK3 □-□□□□	1	1 unit	1CC

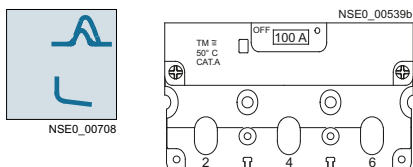
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal²⁾

3
6

VL400/3VL4	200 250 315	1250 ... 2500 2000 ... 4000 2000 ... 4000	3VL4720-1DK36 □-□□□□ 3VL4725-1DK36 □-□□□□ 3VL4731-1DK36 □-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL630/3VL5	315 500	2000 ... 4000 3250 ... 6300	3VL5731-1DK36 □-□□□□ 3VL5750-1DK36 □-□□□□	1 1	1 unit 1 unit	1CC 1CC

3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic trip unit I



Non-automatic molded case circuit breakers³⁾, I function

Without thermal overcurrent release, with fixed short-circuit release (for intrinsic protection only)

VL160X/3VL1	100 160	1800 1800	3VL1710-1DE3 □-□□□□ 3VL1716-1DE3 □-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL160/3VL2	100 160	2500 2500	3VL2710-1DE3 □-□□□□ 3VL2716-1DE3 □-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL250/3VL3	250	3500	3VL3725-1DE3 □-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module with 3VL1²⁾

3
6

VL400/3VL4	400	4000	3VL4740-1DE36 □-□□□□	1	1 unit	1CC
VL630/3VL5	630	6300	3VL5763-1DE36 □-□□□□	1	1 unit	1CC
VL800/3VL6	800	6500	3VL6780-1DE36 □-□□□□	1	1 unit	1CC
VL1250/3VL7	1250	12000	3VL7712-1DE36 □-□□□□	1	1 unit	1CC
VL1600/3VL8 ⁴⁾	1600	14400	3VL8716-1DE30 □-□□□□	1	1 unit	1CC

For further versions, including for short-circuit and ground-fault protection, see pages 2/142 to 2/159.

- For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor, see also page 2/136.
- When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.
- See chapter "Switch Disconnectors". 3K switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.
- Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)						
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL2706-2DK3□-□□□□	1	1 unit	1CC			3VL2706-3DK3□-□□□□	1	1 unit	1CC		
3VL2710-2DK3□-□□□□	1	1 unit	1CC			3VL2710-3DK3□-□□□□	1	1 unit	1CC		
3VL2716-2DK3□-□□□□	1	1 unit	1CC			3VL2716-3DK3□-□□□□	1	1 unit	1CC		
3VL3725-2DK3□-□□□□	1	1 unit	1CC			3VL3725-3DK3□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2DK36-□□□□	1	1 unit	1CC			3VL4720-3DK36-□□□□	1	1 unit	1CC		
3VL4725-2DK36-□□□□	1	1 unit	1CC			3VL4725-3DK36-□□□□	1	1 unit	1CC		
3VL4731-2DK36-□□□□	1	1 unit	1CC			3VL4731-3DK36-□□□□	1	1 unit	1CC		
3VL5731-2DK36-□□□□	1	1 unit	1CC			3VL5731-3DK36-□□□□	1	1 unit	1CC		
3VL5750-2DK36-□□□□	1	1 unit	1CC			3VL5750-3DK36-□□□□	1	1 unit	1CC		

3VL1710-2DE3□-□□□□	1	1 unit	1CC			--					
3VL1716-2DE3□-□□□□	1	1 unit	1CC			--					
3VL2710-2DE3□-□□□□	1	1 unit	1CC			3VL2710-3DE3□-□□□□	1	1 unit	1CC		
3VL2716-2DE3□-□□□□	1	1 unit	1CC			3VL2716-3DE3□-□□□□	1	1 unit	1CC		
3VL3725-2DE3□-□□□□	1	1 unit	1CC			3VL3725-3DE3□-□□□□	1	1 unit	1CC		

3
63
6

3VL4740-2DE36-□□□□	1	1 unit	1CC			3VL4740-3DE36-□□□□	1	1 unit	1CC		
3VL5763-2DE36-□□□□	1	1 unit	1CC			3VL5763-3DE36-□□□□	1	1 unit	1CC		
3VL6780-2DE36-□□□□	1	1 unit	1CC			3VL6780-3DE36-□□□□	1	1 unit	1CC		
3VL7712-2DE36-□□□□	1	1 unit	1CC			3VL7712-3DE36-□□□□	1	1 unit	1CC		
3VL8716-2DE30-□□□□	1	1 unit	1CC			3VL8716-3DE30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Article No. supplement (for complete Article No., see pages 2/142 to 2/159) 3VL.7 ..-.. □□3-.... Trip unit	Breaking capacity	Type VL160¹⁾ 3VL2	VL250¹⁾ 3VL3		VL400 3VL4		VL630 3VL5		VL800 3VL6		VL1250 3VL7		VL1600 3VL8			
			Rated current I_n													
			63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A	
Price																
ETU10	SB	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU10	MB	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU10	LB	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	SL	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	ML	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	SF	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU12	MF	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	SE	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	ME	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU20	LE	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	SG	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	MG	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU42	UL	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU42	UM	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	SH	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU22	MH	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ETU40	UH	N H L	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

✓ Available

-- Not available




¹⁾ The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Article No. supplement (for complete Article No., see pages 2/142 to 2/159) 3VL.7 ..-□□3-..... Trip unit	Breaking capacity	Type	VL160 ¹⁾		VL250 ¹⁾		VL400		VL630		VL800		VL1250		VL1600	
		3VL2	3VL3		3VL4		3VL5		3VL6		3VL7		3VL8			
		Rated current I_n														
		63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A	Price	
ETU10M SP		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU10M MP		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M SS		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M MS		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M LS		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU40M UP		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		

✓ Available

-- Not available

1) The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

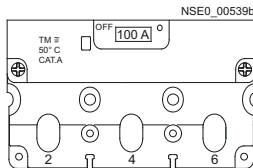
Selection and ordering data

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d			Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overload releases LI



NSE0_00695



NSE0_00539b

Line protection, TM, LI function

With fixed thermal overcurrent releases, fixed short-circuit releases without overcurrent or short-circuit protection in the 4th pole (N)

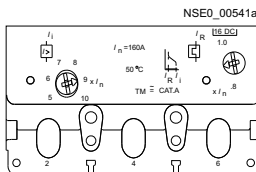
VL160X/3VL1	I_n	I_R	I_i	Article No.	PU	PS	PG
	16	16	300	3VL1796-1EH4□-□□□□	1	1 unit	1CC
	20	20	300	3VL1702-1EH4□-□□□□	1	1 unit	1CC
	25	25	300	3VL1725-1EH4□-□□□□	1	1 unit	1CC
	32	32	300	3VL1703-1EH4□-□□□□	1	1 unit	1CC
	40	40	600	3VL1704-1EH4□-□□□□	1	1 unit	1CC
	50	50	600	3VL1705-1EH4□-□□□□	1	1 unit	1CC
	63	63	600	3VL1706-1EH4□-□□□□	1	1 unit	1CC
	80	80	1000	3VL1708-1EH4□-□□□□	1	1 unit	1CC
	100	100	1000	3VL1710-1EH4□-□□□□	1	1 unit	1CC
	125	125	1000	3VL1712-1EH4□-□□□□	1	1 unit	1CC
	160	160	1500	3VL1716-1EH4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module¹⁾ **6**



NSE0_00704



NSE0_00541a

Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases without overcurrent or short-circuit protection in the 4th pole (N)

VL160/3VL2	I_n	I_R	I_i	Article No.	PU	PS	PG
	50	40 ... 50	300 ... 600	3VL2705-1EJ4□-□□□□	1	1 unit	1CC
	63	50 ... 63	300 ... 600	3VL2706-1EJ4□-□□□□	1	1 unit	1CC
	80	63 ... 80	400 ... 800	3VL2708-1EJ4□-□□□□	1	1 unit	1CC
	100	80 ... 100	500 ... 1000	3VL2710-1EJ4□-□□□□	1	1 unit	1CC
	125	100 ... 125	625 ... 1250	3VL2712-1EJ4□-□□□□	1	1 unit	1CC
	160	125 ... 160	800 ... 1600	3VL2716-1EJ4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EJ4□-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL3725-1EJ4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with flat screw terminal¹⁾ **6**

VL400/3VL4	I_n	I_R	I_i	Article No.	PU	PS	PG
	200	160 ... 200	1000 ... 2000	3VL4720-1EJ46-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL4725-1EJ46-□□□□	1	1 unit	1CC
	315	250 ... 315	1575 ... 3150	3VL4731-1EJ46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL4740-1EJ46-□□□□	1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EJ46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL5740-1EJ46-□□□□	1	1 unit	1CC
	500	400 ... 500	2500 ... 5000	3VL5750-1EJ46-□□□□	1	1 unit	1CC
	630	500 ... 630	3150 ... 6300	3VL5763-1EJ46-□□□□	1	1 unit	1CC

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H				(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3VL1796-2EH4□-□□□□	1	1 unit	1CC		
3VL1702-2EH4□-□□□□	1	1 unit	1CC		
3VL1725-2EH4□-□□□□	1	1 unit	1CC		
3VL1703-2EH4□-□□□□	1	1 unit	1CC		
3VL1704-2EH4□-□□□□	1	1 unit	1CC		
3VL1705-2EH4□-□□□□	1	1 unit	1CC		
3VL1706-2EH4□-□□□□	1	1 unit	1CC		
3VL1708-2EH4□-□□□□	1	1 unit	1CC		
3VL1710-2EH4□-□□□□	1	1 unit	1CC		
3VL1712-2EH4□-□□□□	1	1 unit	1CC		
3VL1716-2EH4□-□□□□	1	1 unit	1CC		

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3
6

3VL2705-2EJ4□-□□□□	1	1 unit	1CC		
3VL2706-2EJ4□-□□□□	1	1 unit	1CC		
3VL2708-2EJ4□-□□□□	1	1 unit	1CC		
3VL2710-2EJ4□-□□□□	1	1 unit	1CC		
3VL2712-2EJ4□-□□□□	1	1 unit	1CC		
3VL2716-2EJ4□-□□□□	1	1 unit	1CC		
3VL3720-2EJ4□-□□□□	1	1 unit	1CC		
3VL3725-2EJ4□-□□□□	1	1 unit	1CC		

3VL2705-3EJ4□-□□□□	1	1 unit	1CC		
3VL2706-3EJ4□-□□□□	1	1 unit	1CC		
3VL2708-3EJ4□-□□□□	1	1 unit	1CC		
3VL2710-3EJ4□-□□□□	1	1 unit	1CC		
3VL2712-3EJ4□-□□□□	1	1 unit	1CC		
3VL2716-3EJ4□-□□□□	1	1 unit	1CC		
3VL3720-3EJ4□-□□□□	1	1 unit	1CC		
3VL3725-3EJ4□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2EJ46-□□□□	1	1 unit	1CC		
3VL4725-2EJ46-□□□□	1	1 unit	1CC		
3VL4731-2EJ46-□□□□	1	1 unit	1CC		
3VL4740-2EJ46-□□□□	1	1 unit	1CC		
3VL5731-2EJ46-□□□□	1	1 unit	1CC		
3VL5740-2EJ46-□□□□	1	1 unit	1CC		
3VL5750-2EJ46-□□□□	1	1 unit	1CC		
3VL5763-2EJ46-□□□□	1	1 unit	1CC		

3VL4720-3EJ46-□□□□	1	1 unit	1CC		
3VL4725-3EJ46-□□□□	1	1 unit	1CC		
3VL4731-3EJ46-□□□□	1	1 unit	1CC		
3VL4740-3EJ46-□□□□	1	1 unit	1CC		
3VL5731-3EJ46-□□□□	1	1 unit	1CC		
3VL5740-3EJ46-□□□□	1	1 unit	1CC		
3VL5750-3EJ46-□□□□	1	1 unit	1CC		
3VL5763-3EJ46-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

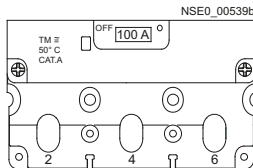
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?ArticleNo .	Basic price per PU	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LIN



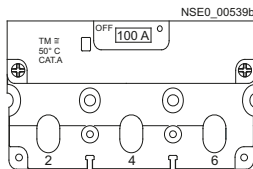
Line protection, TM, LIN function

With fixed thermal overcurrent releases, fixed short-circuit releases with "N" overcurrent and short-circuit release
N protection = 100%

VL160X/3VL1	Rated current I_n	Overcurrent setting I_R	Instantaneous setting I_i	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	16	16	300	3VL1796-1EA4□-□□□□		1	1 unit	1CC
	20	20	300	3VL1702-1EA4□-□□□□		1	1 unit	1CC
	25	25	300	3VL1725-1EA4□-□□□□		1	1 unit	1CC
	32	32	300	3VL1703-1EA4□-□□□□		1	1 unit	1CC
	40	40	600	3VL1704-1EA4□-□□□□		1	1 unit	1CC
	50	50	600	3VL1705-1EA4□-□□□□		1	1 unit	1CC
	63	63	600	3VL1706-1EA4□-□□□□		1	1 unit	1CC
	80	80	1000	3VL1708-1EA4□-□□□□		1	1 unit	1CC
	100	100	1000	3VL1710-1EA4□-□□□□		1	1 unit	1CC
	125	125	1000	3VL1712-1EL4□-□□□□		1	1 unit	1CC
	160	160	1500	3VL1716-1EL4□-□□□□		1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module¹⁾ **6**



Line protection, TM, LIN function

With fixed thermal overcurrent releases, fixed short-circuit releases with "N" overcurrent and short-circuit release
N protection = 60%

VL160X/3VL1	Rated current I_n	Overcurrent setting I_R	Instantaneous setting I_i	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	125	125	1000	3VL1712-1EA4□-□□□□		1	1 unit	1CC
	160	160	1500	3VL1716-1EA4□-□□□□		1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module¹⁾ **6**

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.						Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3VL1796-2EA4□-□□□□	1	1 unit	1CC	--
3VL1702-2EA4□-□□□□	1	1 unit	1CC	--
3VL1725-2EA4□-□□□□	1	1 unit	1CC	--
3VL1703-2EA4□-□□□□	1	1 unit	1CC	--
3VL1704-2EA4□-□□□□	1	1 unit	1CC	--
3VL1705-2EA4□-□□□□	1	1 unit	1CC	--
3VL1706-2EA4□-□□□□	1	1 unit	1CC	--
3VL1708-2EA4□-□□□□	1	1 unit	1CC	--
3VL1710-2EA4□-□□□□	1	1 unit	1CC	--
3VL1712-2EL4□-□□□□	1	1 unit	1CC	--
3VL1716-2EL4□-□□□□	1	1 unit	1CC	--

3
6

3VL1712-2EA4□-□□□□	1	1 unit	1CC	--
3VL1716-2EA4□-□□□□	1	1 unit	1CC	--

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6

Molded Case Circuit Breakers

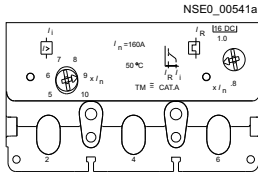
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?ArticleNo.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LIN



Line protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release

N protection = 100%

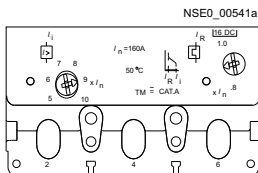
VL160/3VL2	50	40 ... 50	300 ... 600	3VL2705-1EM4□-□□□□	1	1 unit	1CC
	63	50 ... 63	300 ... 600	3VL2706-1EM4□-□□□□	1	1 unit	1CC
	80	63 ... 80	400 ... 800	3VL2708-1EM4□-□□□□	1	1 unit	1CC
	100	80 ... 100	500 ... 1000	3VL2710-1EM4□-□□□□	1	1 unit	1CC
	125	100 ... 125	625 ... 1250	3VL2712-1EM4□-□□□□	1	1 unit	1CC
	160	125 ... 160	800 ... 1600	3VL2716-1EM4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EM4□-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL3725-1EM4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EM46-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL4725-1EM46-□□□□	1	1 unit	1CC
	315	250 ... 315	1575 ... 3150	3VL4731-1EM46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL4740-1EM46-□□□□	1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EM46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL5740-1EM46-□□□□	1	1 unit	1CC
	500	400 ... 500	2500 ... 5000	3VL5750-1EM46-□□□□	1	1 unit	1CC
	630	500 ... 630	3150 ... 6300	3VL5763-1EM46-□□□□	1	1 unit	1CC



Line protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release

N protection = 60%

VL160/3VL2	125	100 ... 125	625 ... 1250	3VL2712-1EC4□-□□□□	1	1 unit	1CC
	160	125 ... 160	800 ... 1600	3VL2716-1EC4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EC4□-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL3725-1EC4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EC46-□□□□	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	3VL4725-1EC46-□□□□	1	1 unit	1CC
	315	250 ... 315	1575 ... 3150	3VL4731-1EC46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL4740-1EC46-□□□□	1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EC46-□□□□	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	3VL5740-1EC46-□□□□	1	1 unit	1CC
	500	400 ... 500	2500 ... 5000	3VL5750-1EC46-□□□□	1	1 unit	1CC
	630	500 ... 630	3150 ... 6300	3VL5763-1EC46-□□□□	1	1 unit	1CC

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H				(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				

3VL2705-2EM4□-□□□□	1	1 unit	1CC			3VL2705-3EM4□-□□□□	1	1 unit	1CC		
3VL2706-2EM4□-□□□□	1	1 unit	1CC			3VL2706-3EM4□-□□□□	1	1 unit	1CC		
3VL2708-2EM4□-□□□□	1	1 unit	1CC			3VL2708-3EM4□-□□□□	1	1 unit	1CC		
3VL2710-2EM4□-□□□□	1	1 unit	1CC			3VL2710-3EM4□-□□□□	1	1 unit	1CC		
3VL2712-2EM4□-□□□□	1	1 unit	1CC			3VL2712-3EM4□-□□□□	1	1 unit	1CC		
3VL2716-2EM4□-□□□□	1	1 unit	1CC			3VL2716-3EM4□-□□□□	1	1 unit	1CC		
3VL3720-2EM4□-□□□□	1	1 unit	1CC			3VL3720-3EM4□-□□□□	1	1 unit	1CC		
3VL3725-2EM4□-□□□□	1	1 unit	1CC			3VL3725-3EM4□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2EM46-□□□□	1	1 unit	1CC			3VL4720-3EM46-□□□□	1	1 unit	1CC		
3VL4725-2EM46-□□□□	1	1 unit	1CC			3VL4725-3EM46-□□□□	1	1 unit	1CC		
3VL4731-2EM46-□□□□	1	1 unit	1CC			3VL4731-3EM46-□□□□	1	1 unit	1CC		
3VL4740-2EM46-□□□□	1	1 unit	1CC			3VL4740-3EM46-□□□□	1	1 unit	1CC		
3VL5731-2EM46-□□□□	1	1 unit	1CC			3VL5731-3EM46-□□□□	1	1 unit	1CC		
3VL5740-2EM46-□□□□	1	1 unit	1CC			3VL5740-3EM46-□□□□	1	1 unit	1CC		
3VL5750-2EM46-□□□□	1	1 unit	1CC			3VL5750-3EM46-□□□□	1	1 unit	1CC		
3VL5763-2EM46-□□□□	1	1 unit	1CC			3VL5763-3EM46-□□□□	1	1 unit	1CC		

3VL2712-2EC4□-□□□□	1	1 unit	1CC			3VL2712-3EC4□-□□□□	1	1 unit	1CC		
3VL2716-2EC4□-□□□□	1	1 unit	1CC			3VL2716-3EC4□-□□□□	1	1 unit	1CC		
3VL3720-2EC4□-□□□□	1	1 unit	1CC			3VL3720-3EC4□-□□□□	1	1 unit	1CC		
3VL3725-2EC4□-□□□□	1	1 unit	1CC			3VL3725-3EC4□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2EC46-□□□□	1	1 unit	1CC			3VL4720-3EC46-□□□□	1	1 unit	1CC		
3VL4725-2EC46-□□□□	1	1 unit	1CC			3VL4725-3EC46-□□□□	1	1 unit	1CC		
3VL4731-2EC46-□□□□	1	1 unit	1CC			3VL4731-3EC46-□□□□	1	1 unit	1CC		
3VL4740-2EC46-□□□□	1	1 unit	1CC			3VL4740-3EC46-□□□□	1	1 unit	1CC		
3VL5731-2EC46-□□□□	1	1 unit	1CC			3VL5731-3EC46-□□□□	1	1 unit	1CC		
3VL5740-2EC46-□□□□	1	1 unit	1CC			3VL5740-3EC46-□□□□	1	1 unit	1CC		
3VL5750-2EC46-□□□□	1	1 unit	1CC			3VL5750-3EC46-□□□□	1	1 unit	1CC		
3VL5763-2EC46-□□□□	1	1 unit	1CC			3VL5763-3EC46-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

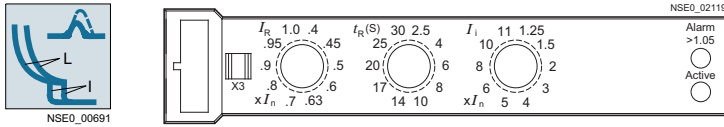
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG
	A	A	A	d		Article No. supplement, see page 2/186; www.siemens.com/product?ArticleNo.				

4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI



ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	63	25 ... 63	1.25 ... 11 × I_n	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... 11 × I_n	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	3VL3725-1□□4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

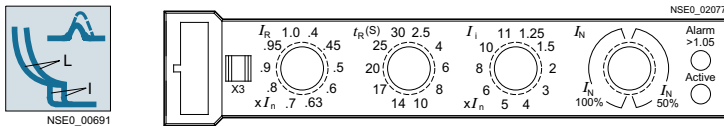
3
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × I_n	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... 11 × I_n	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... 9 × I_n	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TB
NB

4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIN



ETU10, LIN function

With adjustable overcurrent releases, adjustable short-circuit releases with overcurrent or short-circuit release in the 4th pole (N)
N protection = 50/100%

VL160/3VL2	63	25 ... 63	1.25 ... 11 × I_n	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... 11 × I_n	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	3VL3725-1□□4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6¹⁾

VL400/3VL4	315	128 ... 315	1.25 ... 11 × I_n	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... 11 × I_n	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... 9 × I_n	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TA
NA
LA

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				
	Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG		Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.					d	Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.				

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TB
NBTB
NB

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
63
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TA
NA
LATA
NA
LA

Communication:

- Accessories see page 2/221.

- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Minimum order quantity (PS) or a multiple thereof can be ordered.

Molded Case Circuit Breakers

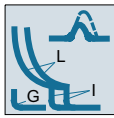
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

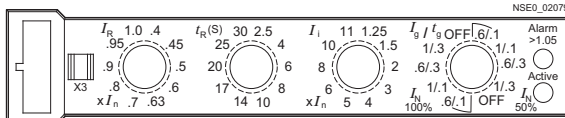
2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LING



NSE0_00693



NSE0_02079

ETU12, LING function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases vectorial summation current formation, ground-fault delay $t_{G0} = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off with overcurrent and short-circuit protection in the 4th pole (N), N protection = 50/100%

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3725-1□□4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TN
NN

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)				
Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG	Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.				d	Article No. supplement, see page 2/186; www.siemens.com/product?Article No.			

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
6

3
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TN
NN

TN
NN

Molded Case Circuit Breakers

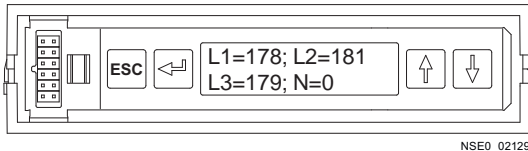
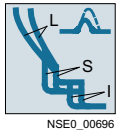
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LI, LSI, LIN, LSIN



LCD-ETU40, LI/LSI/LIN/LSIN function selectable

With adjustable overcurrent releases, adjustable short-circuit releases

short-circuit delay $t_{sd} = 0 \dots 0.5$ s

with overcurrent or short-circuit releases in the 4th pole (N) N protection = 50 ... 100%, OFF

VL160/3VL2	63 ¹⁾	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2706-1UJ4 □-□□□□	1	1 unit	1CC
	100 ¹⁾	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2710-1UJ4 □-□□□□	1	1 unit	1CC
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2716-1UJ4 □-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3720-1UJ4 □-□□□□	1	1 unit	1CC
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3725-1UJ4 □-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal²⁾

3
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4731-1UJ46 □□□□□	1	1 unit	1CC
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4740-1UJ46 □□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1UJ46 □□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1UJ46 □□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7710-1UJ46 □□□□□	1	1 unit	1CC
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7712-1UJ46 □□□□□	1	1 unit	1CC
VL1600/3VL8 ³⁾	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	3VL8716-1UJ40 □□□□□	1	1 unit	1CC

¹⁾ N = 100% protection for $I_n \leq 100$ A.

²⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

³⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				
			(H)							(L)	
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL2706-2UJ4□-□□□□	1	1 unit	1CC			3VL2706-3UJ4□-□□□□	1	1 unit	1CC		
3VL2710-2UJ4□-□□□□	1	1 unit	1CC			3VL2710-3UJ4□-□□□□	1	1 unit	1CC		
3VL2716-2UJ4□-□□□□	1	1 unit	1CC			3VL2716-3UJ4□-□□□□	1	1 unit	1CC		
3VL3720-2UJ4□-□□□□	1	1 unit	1CC			3VL3720-3UJ4□-□□□□	1	1 unit	1CC		
3VL3725-2UJ4□-□□□□	1	1 unit	1CC			3VL3725-3UJ4□-□□□□	1	1 unit	1CC		

3
63
6

3VL4731-2UJ46-□□□□	1	1 unit	1CC			3VL4731-3UJ46-□□□□	1	1 unit	1CC		
3VL4740-2UJ46-□□□□	1	1 unit	1CC			3VL4740-3UJ46-□□□□	1	1 unit	1CC		
3VL5763-2UJ46-□□□□	1	1 unit	1CC			3VL5763-3UJ46-□□□□	1	1 unit	1CC		
3VL6780-2UJ46-□□□□	1	1 unit	1CC			3VL6780-3UJ46-□□□□	1	1 unit	1CC		
3VL7710-2UJ46-□□□□	1	1 unit	1CC			3VL7710-3UJ46-□□□□	1	1 unit	1CC		
3VL7712-2UJ46-□□□□	1	1 unit	1CC			3VL7712-3UJ46-□□□□	1	1 unit	1CC		
3VL8716-2UJ40-□□□□	1	1 unit	1CC			3VL8716-3UJ40-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

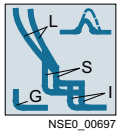
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

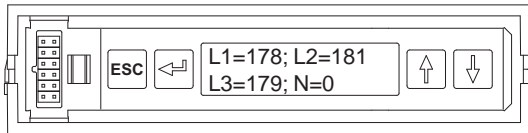
2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_I	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG, LSING



NSE0_00697



NSE0_02129

LCD-ETU42, LSIG/LSING function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases
ground-fault delay $t_{gd} = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s
with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50 ... 100%, OFF

VL160/3VL2	63	25 ... 63	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL2706-1UN4 □-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL2710-1UN4 □-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL2716-1UN4 □-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL3720-1UN4 □-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL3725-1UN4 □-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL4731-1UN46 -□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL4740-1UN46 -□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	1.5 ... 9 × I_R	0.4 ... 1 × I_n	3VL5763-1UN46 -□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	1.5 ... 7 × I_R	0.4 ... 1 × I_n	3VL6780-1UN46 -□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL7710-1UN46 -□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	3VL7712-1UN46 -□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... 9 × I_n	1.5 ... 8 × I_R	0.4 ... 1 × I_n	3VL8716-1UN40 -□□□□	1	1 unit	1CC

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)			
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL2706-2UN4□-□□□□	1	1 unit	1CC	3VL2706-3UN4□-□□□□	1	1 unit	1CC
3VL2710-2UN4□-□□□□	1	1 unit	1CC	3VL2710-3UN4□-□□□□	1	1 unit	1CC
3VL2716-2UN4□-□□□□	1	1 unit	1CC	3VL2716-3UN4□-□□□□	1	1 unit	1CC
3VL3720-2UN4□-□□□□	1	1 unit	1CC	3VL3720-3UN4□-□□□□	1	1 unit	1CC
3VL3725-2UN4□-□□□□	1	1 unit	1CC	3VL3725-3UN4□-□□□□	1	1 unit	1CC

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63
6

3VL4731-2UN46-□□□□	1	1 unit	1CC	3VL4731-3UN46-□□□□	1	1 unit	1CC
3VL4740-2UN46-□□□□	1	1 unit	1CC	3VL4740-3UN46-□□□□	1	1 unit	1CC
3VL5763-2UN46-□□□□	1	1 unit	1CC	3VL5763-3UN46-□□□□	1	1 unit	1CC
3VL6780-2UN46-□□□□	1	1 unit	1CC	3VL6780-3UN46-□□□□	1	1 unit	1CC
3VL7710-2UN46-□□□□	1	1 unit	1CC	3VL7710-3UN46-□□□□	1	1 unit	1CC
3VL7712-2UN46-□□□□	1	1 unit	1CC	3VL7712-3UN46-□□□□	1	1 unit	1CC
3VL8716-2UN40-□□□□	1	1 unit	1CC	3VL8716-3UN40-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

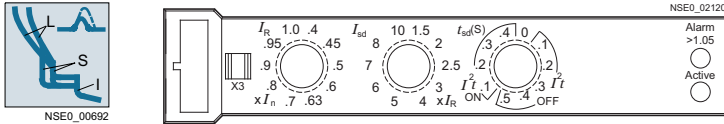
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?ArticleNo.	Price, see page 2/184		

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSI



ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay ($t_{sd} = 0 \dots 0.5$ s) Without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL2706-1 □□4□-□□□□ 3VL2710-1 □□4□-□□□□ 3VL2716-1 □□4□-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	200 250	80 ... 200 100 ... 250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL3720-1 □□4□-□□□□ 3VL3725-1 □□4□-□□□□	1 1	1 unit 1 unit	1CC 1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

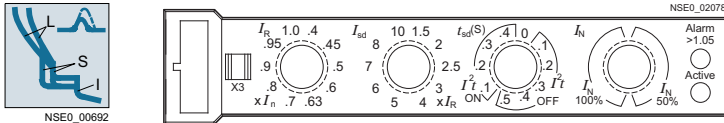
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VL400/3VL4	315 400	128 ... 315 160 ... 400	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL4731-1 □□46-□□□□ 3VL4740-1 □□46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1 □□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1 □□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL7710-1 □□46-□□□□ 3VL7712-1 □□46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	3VL8716-1 □□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TE
NE

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIN



ETU20, LSIN function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay ($t_{sd} = 0 \dots 0.5$ s) with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50/100%

VL160/3VL2	63 100 160	0.4 ... $1.0 \times I_n$ 0.4 ... $1.0 \times I_n$ 0.4 ... $1.0 \times I_n$	$11 \times I_n$ $11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL2706-1 □□4□-□□□□ 3VL2710-1 □□4□-□□□□ 3VL2716-1 □□4□-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	200 250	0.4 ... $1.0 \times I_n$ 0.4 ... $1.0 \times I_n$	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL3720-1 □□4□-□□□□ 3VL3725-1 □□4□-□□□□	1 1	1 unit 1 unit	1CC 1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315 400	0.4 ... $1.0 \times I_n$ 0.4 ... $1.0 \times I_n$	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL4731-1 □□46-□□□□ 3VL4740-1 □□46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL630/3VL5	630	0.4 ... $1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1 □□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	0.4 ... $1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1 □□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000 1250	0.4 ... $1.0 \times I_n$ 0.4 ... $1.0 \times I_n$	$11 \times I_n$ $11 \times I_n$	$1.5 \dots 10 \times I_R$ $1.5 \dots 10 \times I_R$	3VL7710-1 □□46-□□□□ 3VL7712-1 □□46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1600/3VL8 ²⁾	1600	0.4 ... $1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	3VL8716-1 □□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TF
NF
LF

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)				
Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG	Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.				d	Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.			

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
6

3
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TE
NE

TE
NE

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
6

3
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TF
NF
LF

TF
NF
LF

Molded Case Circuit Breakers

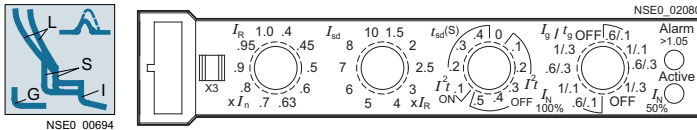
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



ETU22, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases ground-fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off, short-circuit delay $t_{sd} = 0 \dots 0.5$ s with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50/100%

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL3725-1□□4□-□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TH
NH

¹⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.

²⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/221.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H	(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L	(L)
d	Article No. Article No. supplement, see page 2/186; www.siemens.com/product?Article No.	Price, see page 2/184	PU (UNIT, SET, M)	PS	PG

3VL2706-2□□4□-□□□□	1	1 unit	1CC	3VL2706-3□□4□-□□□□	1	1 unit	1CC
3VL2710-2□□4□-□□□□	1	1 unit	1CC	3VL2710-3□□4□-□□□□	1	1 unit	1CC
3VL2716-2□□4□-□□□□	1	1 unit	1CC	3VL2716-3□□4□-□□□□	1	1 unit	1CC
3VL3720-2□□4□-□□□□	1	1 unit	1CC	3VL3720-3□□4□-□□□□	1	1 unit	1CC
3VL3725-2□□4□-□□□□	1	1 unit	1CC	3VL3725-3□□4□-□□□□	1	1 unit	1CC

3
6

3
6

3VL4731-2□□46-□□□□	1	1 unit	1CC	3VL4731-3□□46-□□□□	1	1 unit	1CC
3VL4740-2□□46-□□□□	1	1 unit	1CC	3VL4740-3□□46-□□□□	1	1 unit	1CC
3VL5763-2□□46-□□□□	1	1 unit	1CC	3VL5763-3□□46-□□□□	1	1 unit	1CC
3VL6780-2□□46-□□□□	1	1 unit	1CC	3VL6780-3□□46-□□□□	1	1 unit	1CC
3VL7710-2□□46-□□□□	1	1 unit	1CC	3VL7710-3□□46-□□□□	1	1 unit	1CC
3VL7712-2□□46-□□□□	1	1 unit	1CC	3VL7712-3□□46-□□□□	1	1 unit	1CC
3VL8716-2□□40-□□□□	1	1 unit	1CC	3VL8716-3□□40-□□□□	1	1 unit	1CC

TH
NH

TH
NH

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

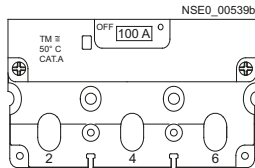
2

Type	Rated current I_n	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	d	Article No. Article No. supplement, see page 2/186; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for safe disconnection,
100 A to 1600 A, magnetic release I



NSE0_00708



Non-automatic molded case circuit breakers¹⁾, I function

Without thermal overcurrent release, with fixed short-circuit release (for intrinsic protection only)
without thermal overcurrent or short-circuit release in the 4th pole (N)

VL160X/3VL1	100 160	1800 1800	3VL1710-1EE4 -□□□□ 3VL1716-1EE4 -□□□□	1 1	1 unit 1 unit	1CC 1CC
VL160/3VL2	100 160	2500 2500	3VL2710-1EE4 -□□□□ 3VL2716-1EE4 -□□□□	1 1	1 unit 1 unit	1CC 1CC
VL250/3VL3	250	3500	3VL3725-1EE4 -□□□□	1	1 unit	1CC

Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module with 3VL¹²⁾ **6**

VL400/3VL4	400	4000	3VL4740-1EE46 -□□□□	1	1 unit	1CC
VL630/3VL5	630	6300	3VL5763-1EE46 -□□□□	1	1 unit	1CC
VL800/3VL6	800	6500	3VL6780-1EE46 -□□□□	1	1 unit	1CC
VL1250/3VL7	1250	12000	3VL7712-1EE46 -□□□□	1	1 unit	1CC
VL1600/3VL8 ³⁾	1600	14400	3VL8716-1EE40 -□□□□	1	1 unit	1CC

- ¹⁾ See chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.
- ²⁾ When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.
- ³⁾ Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		
	Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.						Article No. supplement, see page 2/186; www.siemens.com/product?Article.No.						

3VL1710-2EE4 □-□□□□	1	1 unit	1CC	--							
3VL1716-2EE4 □-□□□□	1	1 unit	1CC	--							
3VL2710-2EE4 □-□□□□	1	1 unit	1CC			3VL2710-3EE4 □-□□□□	1	1 unit	1CC		
3VL2716-2EE4 □-□□□□	1	1 unit	1CC			3VL2716-3EE4 □-□□□□	1	1 unit	1CC		
3VL3725-2EE4 □-□□□□	1	1 unit	1CC			3VL3725-3EE4 □-□□□□	1	1 unit	1CC		

3
63
6

3VL4740-2EE46 □□□□	1	1 unit	1CC			3VL4740-3EE46 □□□□	1	1 unit	1CC		
3VL5763-2EE46 □□□□	1	1 unit	1CC			3VL5763-3EE46 □□□□	1	1 unit	1CC		
3VL6780-2EE46 □□□□	1	1 unit	1CC			3VL6780-3EE46 □□□□	1	1 unit	1CC		
3VL7712-2EE46 □□□□	1	1 unit	1CC			3VL7712-3EE46 □□□□	1	1 unit	1CC		
3VL8716-2EE40 □□□□	1	1 unit	1CC			3VL8716-3EE40 □□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

Article No. supplement (for complete Article No., see pages 2/170 to 2/181) 3VL.7.. - .□□4-....	Breaking capacity	Type VL160¹⁾ 3VL2	VL250¹⁾		VL400		VL630	VL800	VL1250	VL1600			
			3VL3		3VL4		3VL5	3VL6	3VL7	3VL8			
			Rated current I_n										
Trip unit		63 A	100 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A	1000 A	1250 A	1600 A
Price													
ETU10	TB		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NB		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	TA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	LA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	TN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	NN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40	UJ		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	UN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TE		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NE		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	LF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	TH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	NH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

✓ Available

¹⁾ The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

Molded Case Circuit Breakers

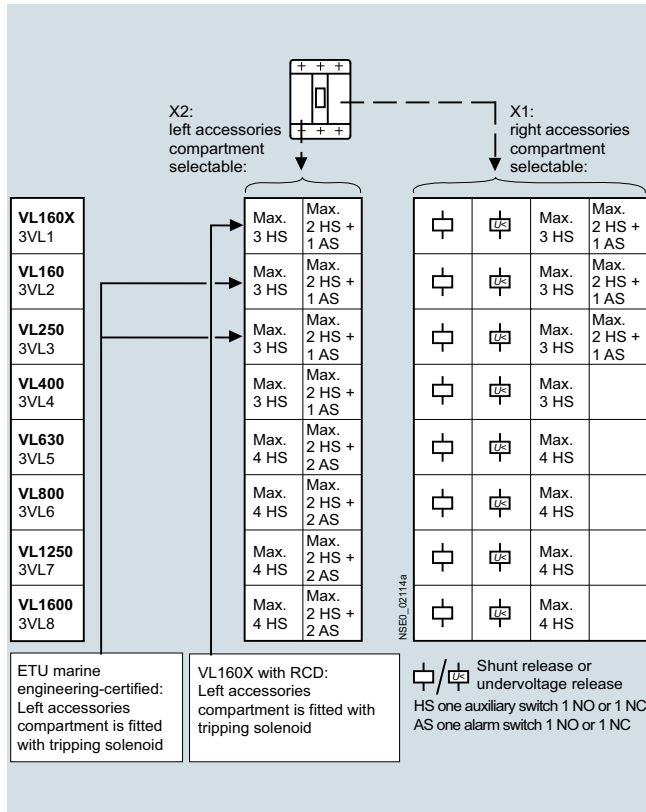
3VL Molded Case Circuit Breakers up to 1600 A, IEC

Options

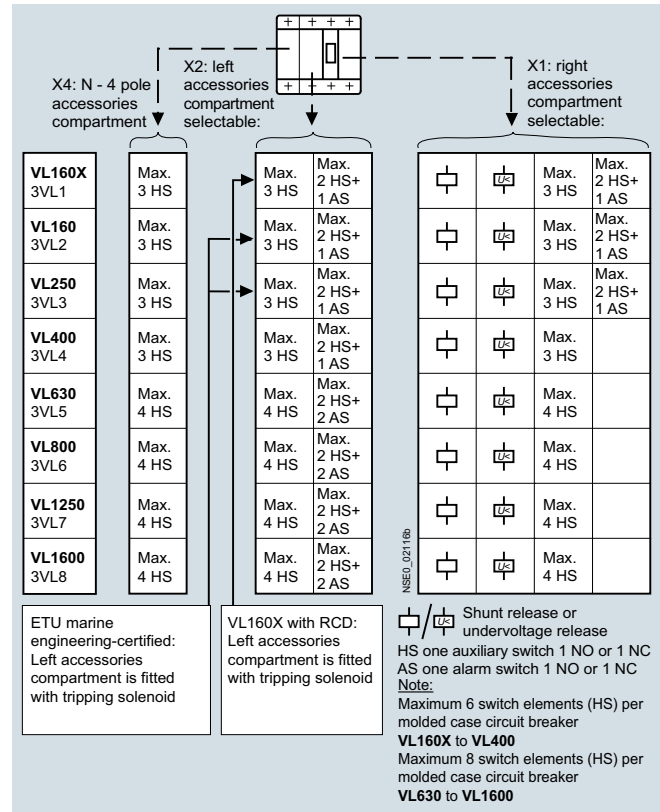
2

Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers

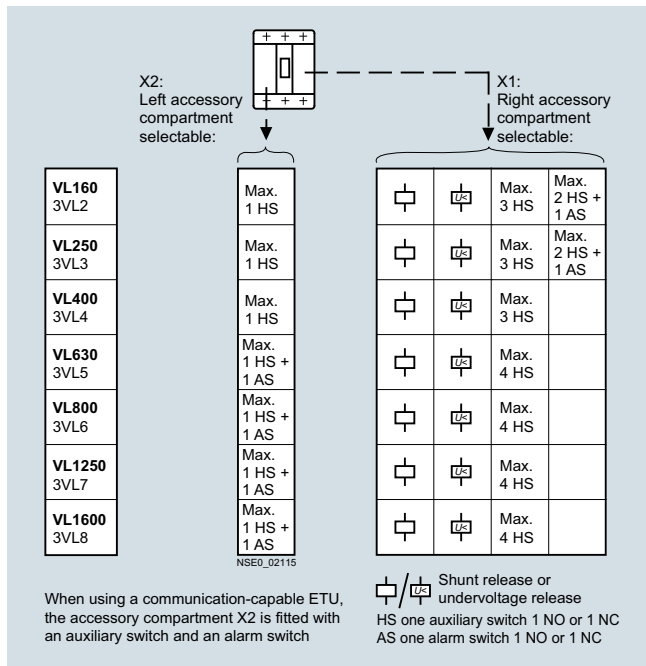
3-pole circuit breakers without communication preparation



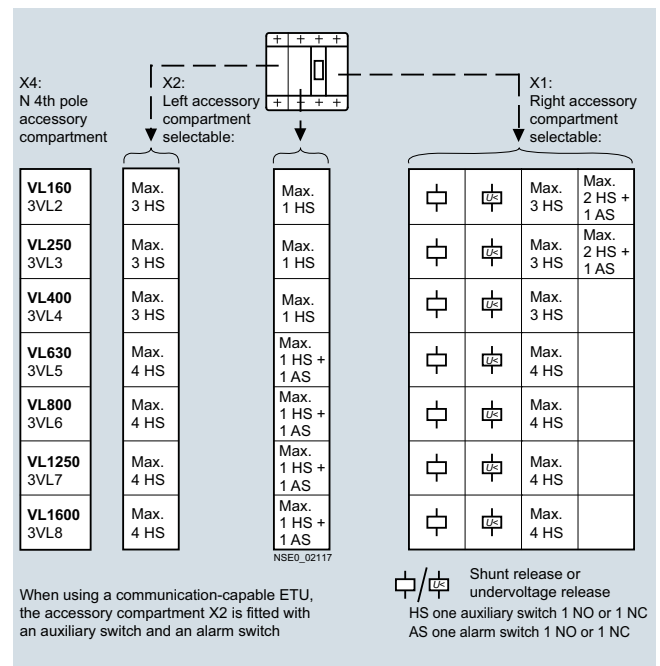
4-pole circuit breakers without communication preparation



3-pole circuit breakers with communication preparation



4-pole circuit breakers with communication preparation



Note:

Before ordering, use the tables above to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Options

1st Article No. supplement: Undervoltage or shunt release, wiring directly to accessories

Rated control supply voltage U_s /frequency	Article No. supplement	Circuit breakers Type	Additional price
50/60 Hz AC DC	3VL.....-...- □ □ ..	VL160X to VL400/ 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
3 or 4-pole			
Without auxiliary releases		0 A	None
With undervoltage release			
Right pole only			
V AC	V DC		
--	12	2 N	✓
--	24	2 P	✓
--	48	2 U	✓
--	60	2 V	✓
--	110 ... 127	2 R	✓
--	220 ... 250	2 S	✓
24	--	2 D	✓
110 ... 127	--	2 G	✓
220 ... 250	--	2 H	✓
208	--	2 M	✓
277	--	2 Q	✓
380 ... 415	--	2 J	✓
440 ... 480	--	2 K	✓
500 ... 525	--	2 L	✓
With shunt release			
Right pole only			
V AC	V DC		
24	24	8 C	✓
--	48 ... 60	8 J	✓
--	110 ... 127	8 K	✓
--	220 ... 250	8 Q	✓
48 ... 60	--	8 M	✓
110 ... 127	--	8 R	✓
208 ... 277	--	8 T	✓
380 ... 600	--	8 V	✓

2nd Article No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, wiring directly to accessories

Equipment	Article No. supplement	Circuit breakers Type	Additional price
HS = 1 NO or 1 NC contact block AS = 1 NO contact block	3VL.....-...- .. □ □	VL160X to VL400 ¹⁾ / 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
Without auxiliary/alarm switches		A 0	None
2 HS (1 NO/1 NC) ²⁾		B 1	✓ ¹⁾⁴⁾
4 HS (2 NO/2 NC)		C 1	--
2 HS (1 NO/1 NC) + 1 AS (1 NO)		D 1	✓ ¹⁾⁴⁾
2 HS (1 NO/1 NC) + 1 AS (1 NO) ³⁾		E 1	✓ ⁵⁾

✓ Additional price

-- Not available

- 1) Except for installation in the left accessory compartment of the VL160X molded case circuit breakers with RCD module.
- 2) With mounting adapter up to 3 HS.
- 3) With mounting adapter up to 2 HS + 2 AS.
- 4) Not feasible for use of marine engineering ETU and additional use of shunt and undervoltage releases.
When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch. The combination of 1st and 2nd Article No. supplement is only possible with restrictions. It is recommended to use the configurator in the Mall for selection purposes.
- 5) Not possible when using a communication-capable ETU.

Selection and ordering data

When ordering, add "-Z" to the complete Article No. and add the relevant order code(s).

Article No. with "-Z"

Additional price

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
3VL -Z
 and additional order code(s)

+ . . . + . . .

Code for further versions -Z

For fixed-mounted circuit breakers (wired in factory)

3 or 4-pole

Prewired internal accessories Connecting cables (3 m long) brought out at the rear This option "L02" can be selected only in combination with internal accessories (page 2/T86). Option not available for factory-fitted motorized operating mechanisms.	For VL160X to VL1600 (3VL1 to 3VL8)	L 0 2	✓
Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO) Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long). On VL160X to VL400 brought out at the top. On VL630 and VL800 brought out on the right. Option "L12" can only be selected in combination with motorized operating mechanisms (order codes "M24", "M42", "M60", "M11" and "M22").	For VL160X to VL800 (3VL1 to 3VL6)	L 1 2	✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 2 4	✓ ✓ ✓ ✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (42 ... 48 V AC/DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 4 2	✓ ✓ ✓ ✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 V AC/DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 6 0	✓ ✓ ✓ ✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (110 ... 127 V AC/DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 1 1	✓ ✓ ✓ ✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (220 ... 250 V AC/DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 2 2	✓ ✓ ✓ ✓

✓ Additional price

¹⁾ The motorized operating mechanism for VL1250 and VL1600 (3VL7 and 3VL8) has no stored energy mechanism and is also unsuitable for synchronization tasks.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Options

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When ordering, add "-Z" to the complete Article No. and add the relevant order code(s).

Article No. with "-Z"

Additional price

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
3VL - -Z
 and additional order code(s)

+ . . . + . . .

Code for further versions **-Z**

For fixed-mounted circuit breakers (wired in factory)

3 or 4-pole

Option Description	Availability	Code	Additional Price
Pre-mounted motorized operating mechanisms (24 V DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1)	M 2 5	✓
If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	VL160, VL250 (3VL2, 3VL3)		✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
Pre-mounted motorized operating mechanisms (42 ... 60 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1)	M 4 3	✓
If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	VL160, VL250 (3VL2, 3VL3)		✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
Pre-mounted motorized operating mechanisms (110 ... 127 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1)	M 1 2	✓
If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	VL160, VL250 (3VL2, 3VL3)		✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓
Pre-mounted motorized operating mechanisms (220 ... 250 V AC/DC) on circuit breaker, not synchronizable	Available with VL160X (3VL1)	M 2 3	✓
If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.	VL160, VL250 (3VL2, 3VL3)		✓
	VL400 (3VL4)		✓
	VL630, VL800 (3VL5, 3VL6)		✓

✓ Additional price

Selection and ordering data

Wiring directly to accessories	SD	For VL160X to VL400 (3VL1 to 3VL4)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article.No.	Price per PU		

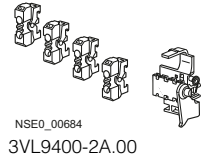
Auxiliary switches and auxiliary releases

3 or 4-pole

For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.)

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



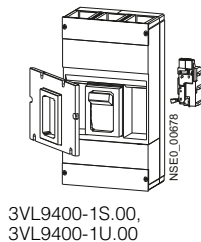
Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left ¹⁾ , right	3VL9400-2AB00	1	1 unit	1CC
4 HS (2 NO + 2 NC)	N, left ¹⁾ , right	--			
2 HS (1 NC + 1 NO)	left ¹⁾ , right ³⁾	3VL9400-2AD00	1	1 unit	1CC
+ 1 AS (1 NO) (assembly kit)	left ¹⁾	--			

Additional auxiliary switch/alarm switch combinations

See page 2/191.

Shunt releases ²⁾

For retrofitting



V AC	V DC	Mounting side			
24	24	Right pole only	3VL9400-1SC00	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9400-1SJ00	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1SK00	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1SQ00	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9400-1SM00	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1SR00	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9400-1ST00	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9400-1SV00	1	1 unit 1CC

Undervoltage releases

For retrofitting

V AC	V DC	Mounting side			
--	12	Right pole only	3VL9400-1UN00	1	1 unit 1CC
--	24	Right pole only	3VL9400-1UP00	1	1 unit 1CC
--	48	Right pole only	3VL9400-1UU00	1	1 unit 1CC
--	60	Right pole only	3VL9400-1UV00	1	1 unit 1CC
24	--	Right pole only	3VL9400-1UD00	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1UG00	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1UR00	1	1 unit 1CC
208	--	Right pole only	3VL9400-1UM00	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9400-1UH00	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1US00	1	1 unit 1CC
277	--	Right pole only	3VL9400-1UQ00	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9400-1UJ00	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9400-1UK00	1	1 unit 1CC
500 ... 525	--	Right pole only	3VL9400-1UL00	1	1 unit 1CC

Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)

Rated control supply voltage U_s
220 ... 240 V AC/220 ... 250 V DC

Storage time 5 min

3WL9111-0BA14-0AA0 1 1 unit 1CA

- ¹⁾ Except for installation in the left accessory compartment of the VL160X (3VL1) molded case circuit breakers with RCD module.
- ²⁾ Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).
- ³⁾ In the case of VL400 (3VL4):
Unsuitable for mounting in the right accessory compartment.
The 3VL9400-2AB00 assembly kit with auxiliary switches only is recommended.

Molded Case Circuit Breakers

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Accessories and spare parts

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Wiring directly to accessories	SD	For VL630 to VL1600 (3VL5 to 3VL8)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

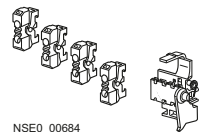
Auxiliary switches and auxiliary releases

3 or 4-pole

For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.)

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



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3VL9800-2A.00

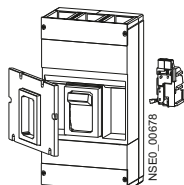
Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left, right	--			
4 HS (2 NO + 2 NC)	N, left, right	3VL9800-2AC00	1	1 unit	1CC
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	-- 3VL9800-2AE00	1	1 unit	1CC

Additional auxiliary switch/alarm switch combinations

[See page 2/191.](#)

Shunt releases ¹⁾

For retrofitting



3VL9800-1S.00,
3VL9800-1U.00

V AC	V DC	Mounting side			
24	24	Right pole only	3VL9800-1SC00	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9800-1SJ00	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1SK00	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1SQ00	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9800-1SM00	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1SR00	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9800-1ST00	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9800-1SV00	1	1 unit 1CC

Undervoltage releases

For retrofitting

V AC	V DC	Mounting side			
--	12	Right pole only	3VL9800-1UN00	1	1 unit 1CC
--	24	Right pole only	3VL9800-1UP00	1	1 unit 1CC
--	48	Right pole only	3VL9800-1UU00	1	1 unit 1CC
--	60	Right pole only	3VL9800-1UV00	1	1 unit 1CC
24	--	Right pole only	3VL9800-1UD00	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1UG00	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1UR00	1	1 unit 1CC
208	--	Right pole only	3VL9800-1UM00	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9800-1UH00	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1US00	1	1 unit 1CC
277	--	Right pole only	3VL9800-1UQ00	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9800-1UJ00	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9800-1UK00	1	1 unit 1CC
500 ... 525	--	Right pole only	3VL9800-1UL00	1	1 unit 1CC

Storage devices for shunt releases

(208 ... 277 V AC/220 ... 250 V DC)

Rated control supply voltage U_s
220 ... 240 V AC/220 ... 250 V DC

Storage time 5 min

3WL9111-0BA14-0AA0 1 1 unit 1CA

¹⁾ Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support.)

For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Type		d					

3SB adapters and 3SB contact blocks**Mounting adapters for auxiliary and alarm switch combinations****For installation in the N pole of the circuit breaker**

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS ¹⁾		3VL9400-2AH00		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		--				

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		3VL9816-2AL00		1	1 unit	1CC
	2 HS + 2 AS		--				

For installation in the left pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS ¹⁾		3VL9400-2AH00		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ10		1	1 unit	1CC

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		3VL9816-2AL00		1	1 unit	1CC
	2 HS + 2 AS		3VL9816-2AN10		1	1 unit	1CC

For installation in the right pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) ²⁾	Up to 3 HS ¹⁾		3VL9400-2AH00		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ20		1	1 unit	1CC

VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		3VL9816-2AL00		1	1 unit	1CC
	2 HS + 2 AS		--				

¹⁾ Except for installation in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.

²⁾ In the case of VL400: 3VL9400-2AJ20 unsuitable for mounting in the right accessory compartment.

For auxiliary switches (HS) and alarm switches (AS)	SD	Circuit breakers Type	PU (UNIT, SET, M)	PS	PG
	d	VL160X to VL1600 (3VL1 to 3VL8)			
		Article No. www.siemens.com/ product?Article No.	Price per PU		

Contact blocks for auxiliary switch and alarm switch combinations

1 NO		3SB3400-0J		1	1 unit	41J
1 NC		3SB3400-0K		1	1 unit	41J

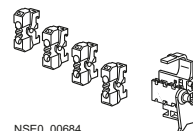
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB3400-0J
- 1 HS or 1 AS with NC contact 3SB3400-0K

Note:

A maximum of 6 contact blocks (HS) per circuit breaker (VL160X, VL160, VL250, VL400; 3VL1 to 3VL4) and a maximum of 8 contact blocks (HS) per circuit breaker (VL630, VL800, VL1250, VL1600; 3VL5 to 3VL8) are possible.

Four 3SB34 auxiliary contact blocks and one mounting adapter (right), suitable for VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) circuit breakers.



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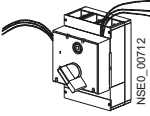
For retrofitting/equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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Version	SD	For VL160X to VL250 (3VL1 to 3VL3)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Manual operating mechanisms					
3 or 4-pole					
Front-operated rotary operating mechanisms¹⁾					
	For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ²⁾ , black, max. 3 padlocks				
3VL9.00-3H.00					
EMERGENCY-STOP version					
Red knob, yellow indicator plate					
For safety locks for installation by the customer, see pages 2/214 to 2/218 .					
	Front-operated rotary operating mechanisms with shaft stub, without knob¹⁾				
3VL9300-3HE00	Without leading auxiliary switch, for auxiliary switches, see below .				
Door-coupling rotary operating mechanisms, complete¹⁾					
Installation in doors and covers					
Degree of protection IP65, including handle ti-gray, with masking plate, indicator plate, removable door coupling (die cast with reduced tolerance compensation), extension shaft (8 x 8 mm), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking					
					
3VL9.00-3H.05					
EMERGENCY-STOP version					
Red knob, yellow indicator plate, without leading auxiliary switch					
For safety locks for installation by the customer, see pages 2/214 to 2/218 .					
Leading auxiliary switches					
for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism					
Standard or EMERGENCY-STOP version					
					
3VL9.00-3A.10					
"OFF after ON"					
Leading auxiliary switches when switching on					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
"ON after OFF"					
Leading auxiliary switches when switching off					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
Side panel rotary operating mechanisms, complete¹⁾					
Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden cable, lockable with up to 3 padlocks					
- With 600 mm Bowden cable					
- With 1000 mm Bowden cable					
- With 1500 mm Bowden cable					
Side panel rotary operating mechanisms, complete¹⁾					
EMERGENCY-STOP version					
Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden cable, lockable with up to 3 padlocks					
- With 600 mm Bowden cable					
- With 1000 mm Bowden cable					
- With 1500 mm Bowden cable					
Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device					
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm					
- For 6 mm shaft					

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/197 and 2/199](#).

¹⁾ Not possible on VL160X with RCD module.

²⁾ IP40 with additional masking frame mounted on the door cut-out.

Molded Case Circuit Breakers

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Accessories and spare parts




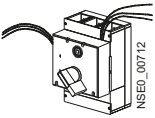
SD	For VL400 (3VL4)	PU (UNIT, SET, M)	PS	PG	SD	For VL630 (3VL5)	PU (UNIT, SET, M)	PS	PG	
d	Article No. www.siemens.com/ product?Article No.	Price per PU			d	Article No. www.siemens.com/ product?Article No.	Price per PU			
	3VL9400-3HA00		1	1 unit	1CC	3VL9600-3HA00		1	1 unit	1CC
	3VL9400-3HC00		1	1 unit	1CC	3VL9600-3HC00		1	1 unit	1CC
	3VL9400-3HE00		1	1 unit	1CC	3VL9600-3HE00		1	1 unit	1CC
	3VL9400-3HF05		1	1 unit	1CC	3VL9600-3HF05		1	1 unit	1CC
	3VL9400-3HG05		1	1 unit	1CC	3VL9600-3HG05		1	1 unit	1CC
	3VL9400-3AS10		1	1 unit	1CC	3VL9600-3AS10		1	1 unit	1CC
	3VL9400-3AT10		1	1 unit	1CC	3VL9600-3AT10		1	1 unit	1CC
	3VL9400-3AU10		1	1 unit	1CC	3VL9600-3AU10		1	1 unit	1CC
	3VL9400-3AW10		1	1 unit	1CC	3VL9600-3AW10		1	1 unit	1CC
	3VL9400-3HR10		1	1 unit	1CC	3VL9500-3HR10		1	1 unit	1CC
	3VL9400-3HR20		1	1 unit	1CC	3VL9500-3HR20		1	1 unit	1CC
	3VL9400-3HR30		1	1 unit	1CC	3VL9500-3HR30		1	1 unit	1CC
	3VL9400-3HR11		1	1 unit	1CC	3VL9500-3HR11		1	1 unit	1CC
	3VL9400-3HR21		1	1 unit	1CC	3VL9500-3HR21		1	1 unit	1CC
	3VL9400-3HR31		1	1 unit	1CC	3VL9500-3HR31		1	1 unit	1CC
	3VL9400-3HP00		1	1 unit	1CC	3VL9600-3HP00		1	1 unit	1CC
	--					--				

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.				
Manual operating mechanisms						
3 or 4-pole						
		Front-operated rotary operating mechanisms For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u> , max. 3 padlocks EMERGENCY-STOP version Red knob, yellow indicator plate For safety locks for installation by the customer, see pages 2/214 to 2/218 .				
3VL9.00-3H.00		3VL9600-3HA00		1	1 unit	1CC
		3VL9600-3HC00		1	1 unit	1CC
		Front-operated rotary operating mechanisms with shaft stub, without knob Without leading auxiliary switch, for auxiliary switches, see below .				
3VL9.00-3H.05		3VL9600-3HE00		1	1 unit	1CC
		Door-coupling rotary operating mechanisms, complete Installation in doors and covers Degree of protection IP65, including handle, <u>ti-gray</u> , with masking plate, indicator plate, detachable door coupling (die cast, for VL800 (3VL6) with reduced tolerance compensation), extension shaft (8 × 8 mm for VL800 (3VL6), 12 × 12 mm for VL1250 (3VL7) and VL1600 (3VL8)), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with max. 3 padlocks, with door interlocking EMERGENCY-STOP version Red knob, yellow indicator plate without leading auxiliary switch For safety locks for installation by the customer, see pages 2/214 to 2/218 .				
3VL9.00-3H.05		3VL9600-3HF05		1	1 unit	1CC
		3VL9600-3HG05		1	1 unit	1CC
		Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables				
3VL9.00-3A.10		3VL9600-3AS10		1	1 unit	1CC
		3VL9600-3AT10		1	1 unit	1CC
		3VL9600-3AU10		1	1 unit	1CC
		3VL9600-3AW10		1	1 unit	1CC
		Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm				
		3VL9600-3HP00		1	1 unit	1CC

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/197 and 2/199](#).

¹⁾ IP40 with additional masking frame mounted on the door cut-out.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

SD	For VL1250 to VL1600 (3VL7 and 3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.				

3VL9800-3HA00	1	1 unit	1CC
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3VL9800-3HC00	1	1 unit	1CC
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3VL9800-3HE00	1	1 unit	1CC
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3VL9800-3HF05	1	1 unit	1CC
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3VL9800-3HG05	1	1 unit	1CC
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3VL9800-3AS20	1	1 unit	1CC
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3VL9800-3AT20	1	1 unit	1CC
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3VL9800-3AU10	1	1 unit	1CC
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3VL9800-3AW10	1	1 unit	1CC
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3VL9800-3HP00	1	1 unit	1CC
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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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Motorized operating mechanisms

3 or 4-pole

Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks¹⁾²⁾

Degree of protection IP30, with locking device for 3 padlocks



3VL9.00-3M.00

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL160X to VL250
(3VL1 to 3VL3)

3VL9300-3MJ00	1	1 unit	1CC
3VL9300-3ML00	1	1 unit	1CC
3VL9300-3MS00	1	1 unit	1CC
3VL9300-3MN00	1	1 unit	1CC
3VL9300-3MQ00	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL400 (3VL4)

3VL9400-3MJ00	1	1 unit	1CC
3VL9400-3ML00	1	1 unit	1CC
3VL9400-3MS00	1	1 unit	1CC
3VL9400-3MN00	1	1 unit	1CC
3VL9400-3MQ00	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL630 and VL800
(3VL5 and 3VL6)

3VL9600-3MJ00	1	1 unit	1CC
3VL9600-3ML00	1	1 unit	1CC
3VL9600-3MS00	1	1 unit	1CC
3VL9600-3MN00	1	1 unit	1CC
3VL9600-3MQ00	1	1 unit	1CC

Motorized operating mechanisms (MO)¹⁾

Degree of protection IP30, with locking device for 3 padlocks



3VL9.00-3M.10

50/60 Hz V AC	V DC
--	24
42 ... 60	42 ... 60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL160X (3VL1)

3VL9100-3MA10	1	1 unit	1CC
3VL9100-3MC10	1	1 unit	1CC
3VL9100-3MD10	1	1 unit	1CC
3VL9100-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 60	42 ... 60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL160 and VL250
(3VL2 and 3VL3)

3VL9300-3MA10	1	1 unit	1CC
3VL9300-3MC10	1	1 unit	1CC
3VL9300-3MD10	1	1 unit	1CC
3VL9300-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 60	42 ... 60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL400 (3VL4)

3VL9400-3MA10	1	1 unit	1CC
3VL9400-3MC10	1	1 unit	1CC
3VL9400-3MD10	1	1 unit	1CC
3VL9400-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 60	42 ... 60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL630 and VL800
(3VL5 and 3VL6)

3VL9600-3MA10	1	1 unit	1CC
3VL9600-3MC10	1	1 unit	1CC
3VL9600-3MD10	1	1 unit	1CC
3VL9600-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

For VL1250 and VL1600²⁾
(3VL7 and 3VL8)

3VL9800-3MJ00	1	1 unit	1CC
3VL9800-3ML00	1	1 unit	1CC
3VL9800-3MS00	1	1 unit	1CC
3VL9800-3MN00	1	1 unit	1CC
3VL9800-3MQ00	1	1 unit	1CC

Toggle lever extension

Toggle lever extension

- For VL400 (3VL4)
- For VL630 and VL800 (3VL5 and 3VL6)
- For VL1250 and VL1600 (3VL7 and 3VL8)

For VL400 to VL1600
(3VL4 to 3VL8)

3VL9400-3HN00	1	1 unit	1CC
3VL9600-3HN00	1	1 unit	1CC
3VL9800-3HN00	1	1 unit	1CC

¹⁾ Not possible on VL160X with RCD module.




²⁾ For safety lock as an assembly kit for retrofitting, see pages 2/214 to 2/218.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

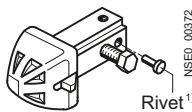
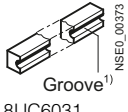
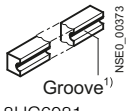
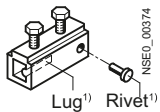

Accessories and spare parts

2

Switching devices	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ¹⁾	SD	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS	PG	
Type	Type	mm × mm	d			Article No. www.siemens.com/product?Article No.	Price per PE			
Individual parts for 8UC door-coupling rotary operating mechanisms²⁾										
	Handles with masking plate (including flat gasket and fixing screws)									
3VL1, 3VL2, 3VL3	8UC71	1	6 × 6 or 8 × 8	Standard EMERGENCY-STOP		8UC7110-6BD 8UC7120-8BD		1 1	1 unit 1 unit	1CL 1CL
8UC7110-1BB										
	3VL4, 3VL5, 3VL6	8UC72	2	8 × 8	Standard EMERGENCY-STOP	8UC7210-6BD 8UC7220-8BD		1 1	1 unit 1 unit	1CL 1CL
8UC7210-6BD										
	3VL7, 3VL8	8UC73	3	12 × 12	Standard EMERGENCY-STOP	8UC7310-6BD 8UC7320-8BD		1 1	1 unit 1 unit	1CL 1CL
8UC7310-1BB										

¹⁾ Standard: Ti-gray handle, light-gray masking plate; EMERGENCY-STOP: red handle, yellow masking plate.

²⁾ Cannot be used for side panel rotary operating mechanisms.

Rotary operating mechanisms	Cross-section of the actuating shaft	SD	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS	PG
Type	mm × mm	d	Article No. www.siemens.com/product?Article No.	Price per PE		
Individual parts for 8UC door-coupling rotary operating mechanisms						
	Coupling drivers for 3VL					
8UC71 (plastic)	6 × 6		8UC7011-2AA		1	1 unit
8UC71/8UC72 ²⁾ (die cast)	8 × 8		8UC6017-2AA		1	1 unit
8UC73/74 (die cast)	12 × 12		8UC6014		1	1 unit
8UC6014						
	Extension shafts 300 mm long					
8UC71	6 × 6		8UC6031		1	1 unit
8UC71/8UC72	8 × 8		8UC6032		1	1 unit
8UC73	10 × 10		8UC6033		1	1 unit
8UC73/74	12 × 12		8UC6034		1	1 unit
8UC6031						
	Extension shafts 600 mm long					
8UC71	6 × 6		8UC6081		1	1 unit
8UC71/8UC72	8 × 8		8UC6082		1	1 unit
8UC73	10 × 10		8UC6083		1	1 unit
8UC73/74	12 × 12		8UC6084		1	1 unit
8UC6081						
	Shaft couplings					
8UC71	6 × 6		8UC6021		1	1 unit
8UC72	8 × 8		8UC6022		1	1 unit
8UC73	10 × 10		8UC6023		1	1 unit
8UC73/74	12 × 12		8UC6024		1	1 unit
8UC6021 to 8UC6024						
	Reducers					
8UC71	8 × 8 to 6 × 6		8UC7058		1	1 unit
8UC72	12 × 12 to 8 × 8		8UC7050		1	1 unit
8UC7058						

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC


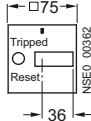


Accessories and spare parts


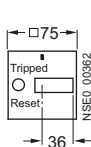


2

Switching devices	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
Type	A	mm	Nm	Size	

8UC door-coupling rotary operating mechanisms


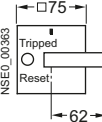


8UC71 - 3VL circuit breakers

	3VL1	16 ... 160	6 × 6	4	1	
	3VL2	50 ... 160	6 × 6	4		
	3VL3	200... 250	6 × 6	4		


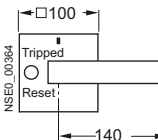

	3VL1	16 ... 160	8 × 8	4	1	
	3VL2	50 ... 160	8 × 8	4		
	3VL3	200... 250	8 × 8	4		

(Supplied with door-coupling rotary operating mechanism, complete 3VL9 300-3H.05)

8UC72 - 3VL circuit breakers

	3VL4	200 ... 400	8 × 8	9	2	
	3VL5	315 ... 600	8 × 8	9		
	3VL6	320 ... 800	8 × 8	9		

8UC73 - 3VL circuit breakers

	3VL7	400 ... 1250	12 × 12	25	3	
	3VL8	640 ... 1600	12 × 12	25		

¹⁾ Requires in addition a front-operated rotary operating mechanism with shaft stub for direct mounting to the circuit breaker. For ordering the complete operating mechanism, see pages 2/192 to 2/195.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	Rotary operating mechanisms, complete ¹⁾	PU (UNIT, SET, M)	PS	PG	Individual parts of the rotary operating mechanism			
Standard: Ti-gray handle, light gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate	d	Article No. www.siemens.com/ product?Article No.	Price per PE			Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/shaft coupling
						Article No.	Article No.	Article No.	Article No.
Standard EMERGENCY-STOP (Coupling driver made of plastic)		8UC7111-6BD15 8UC7121-8BD15		1 1 unit 1CL	8UC7110-6BD	□ 6 mm	□ 6 mm	□ 8 mm by 6 mm	
				1 1 unit 1CL	8UC7120-8BD	8UC7011-2AA	8UC6031	8UC7058	
						8UC7011-2AA	8UC6031	8UC7058	
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7162-6BD22 8UC7172-8BD22		1 1 unit 1CL	8UC7110-6BD	□ 8 mm	□ 8 mm	□ 8 mm by 8 mm	
				1 1 unit 1CL	8UC7120-8BD	8UC6017-2AA	8UC6032	8UC6022	
						8UC6017-2AA	8UC6032	8UC6022	
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7262-6BD26 8UC7262-8BD26		1 1 unit 1CL	8UC7210-6BD	□ 8 mm	□ 8 mm	□ 12 mm by 8 mm	
				1 1 unit 1CL	8UC7220-8BD	8UC6017-2AA	8UC6032	8UC7050	
						8UC6017-2AA	8UC6032	8UC7050	
Standard EMERGENCY-STOP (Die cast coupling driver)		8UC7314-6BD44 8UC7324-8BD44		1 1 unit 1CL	8UC7310-6BD	□ 12 mm	□ 12 mm	□ 12 mm by 12 mm	
				1 1 unit 1CL	8UC7320-8BD	8UC6014	8UC6034	8UC6024	
						8UC6014	8UC6034	8UC6024	

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Plug-in versions/withdrawable versions						
3 or 4-pole						
Plug-in base assembly kits						
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
Rear connections						
3-pole		3VL9100-4PA30		1	1 unit	1CC
3-pole with RCD module		3VL9100-4PB30		1	1 unit	1CC
4-pole		3VL9100-4PA40		1	1 unit	1CC
4-pole with RCD module		3VL9100-4PB40		1	1 unit	1CC
90° angle connecting adapters						
For rear connection, 3-pole		3VL9300-4PE30		1	1 unit	1CC
For rear connection, 4-pole		3VL9300-4PE40		1	1 unit	1CC
Front connections						
3-pole		3VL9100-4PC30		1	1 unit	1CC
3-pole with RCD module		3VL9100-4PD30		1	1 unit	1CC
4-pole		3VL9100-4PC40		1	1 unit	1CC
4-pole with RCD module		3VL9100-4PD40		1	1 unit	1CC
Withdrawable version assembly kits						
Upgrade of the plug-in base assembly kit to						
Withdrawable version including side panels and racking mechanism.	3-pole	--				
	3-pole with RCD	--				
	4-pole	--				
	4-pole with RCD	--				
Withdrawable versions						
Same as plug-in base assembly kit, with additional side panels and racking mechanism						
Rear connections						
3-pole		--				
3-pole with RCD module		--				
4-pole		--				
4-pole with RCD module		--				
Front connections						
3-pole		--				
3-pole with RCD module		--				
4-pole		--				
4-pole with RCD module		--				
Blade contacts						
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin						
1 set = 6 units	3-pole	3VL9100-4PS30		1	1 unit	1CC
1 set = 8 units	4-pole	3VL9100-4PS40		1	1 unit	1CC
Trip pins and springs						
As replacement for plug-in/withdrawable circuit breaker						
		3VL9100-4PF00		1	1 unit	1CC
Auxiliary circuit plug connections for plug-in bases						
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)						
8 terminals		1) 3VL9300-4PJ00		1	1 unit	1CC
Position signaling switches						
(Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible						
		3VL9000-4WL00		1	1 unit	1CC



3VL9.00-4PA30



3VL9.00-4WA30



3VL9.00-4WA30

1) It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9200-4PA30		1	1 unit	1CC		3VL9300-4PA30		1	1 unit	1CC
	3VL9200-4PB30		1	1 unit	1CC		3VL9300-4PB30		1	1 unit	1CC
	3VL9200-4PA40		1	1 unit	1CC		3VL9300-4PA40		1	1 unit	1CC
	3VL9200-4PB40		1	1 unit	1CC		3VL9300-4PB40		1	1 unit	1CC
	3VL9300-4PE30		1	1 unit	1CC		3VL9300-4PE30		1	1 unit	1CC
	3VL9300-4PE40		1	1 unit	1CC		3VL9300-4PE40		1	1 unit	1CC
	3VL9200-4PC30		1	1 unit	1CC		3VL9300-4PC30		1	1 unit	1CC
	3VL9200-4PD30		1	1 unit	1CC		3VL9300-4PD30		1	1 unit	1CC
	3VL9200-4PC40		1	1 unit	1CC		3VL9300-4PC40		1	1 unit	1CC
	3VL9200-4PD40		1	1 unit	1CC		3VL9300-4PD40		1	1 unit	1CC
	3VL9300-4WF30		1	1 unit	1CC		3VL9300-4WF30		1	1 unit	1CC
	3VL9300-4WG30		1	1 unit	1CC		3VL9300-4WG30		1	1 unit	1CC
	3VL9300-4WF40		1	1 unit	1CC		3VL9300-4WF40		1	1 unit	1CC
	3VL9300-4WG40		1	1 unit	1CC		3VL9300-4WG40		1	1 unit	1CC
	3VL9200-4WA30		1	1 unit	1CC		3VL9300-4WA30		1	1 unit	1CC
	3VL9200-4WB30		1	1 unit	1CC		3VL9300-4WB30		1	1 unit	1CC
	3VL9200-4WA40		1	1 unit	1CC		3VL9300-4WA40		1	1 unit	1CC
	3VL9200-4WB40		1	1 unit	1CC		3VL9300-4WB40		1	1 unit	1CC
	3VL9200-4WC30		1	1 unit	1CC		3VL9300-4WC30		1	1 unit	1CC
	3VL9200-4WD30		1	1 unit	1CC		3VL9300-4WD30		1	1 unit	1CC
	3VL9200-4WC40		1	1 unit	1CC		3VL9300-4WC40		1	1 unit	1CC
	3VL9200-4WD40		1	1 unit	1CC		3VL9300-4WD40		1	1 unit	1CC
	3VL9200-4PS30		1	1 unit	1CC		3VL9300-4PS30		1	1 unit	1CC
	3VL9200-4PS40		1	1 unit	1CC		3VL9300-4PS40		1	1 unit	1CC
	3VL9300-4PF00		1	1 unit	1CC		3VL9300-4PF00		1	1 unit	1CC
	1) 3VL9300-4PJ00		1	1 unit	1CC		1) 3VL9300-4PJ00		1	1 unit	1CC
	3VL9000-4WL00		1	1 unit	1CC		3VL9000-4WL00		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Plug-in versions/withdrawable versions						
3 or 4-pole						
Plug-in base assembly kits						
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
Rear connections						
3-pole		3VL9400-4PA30 _1)		1	1 unit	1CC
3-pole with RCD module		3VL9400-4PA40		1	1 unit	1CC
4-pole		3VL9400-4PB40		1	1 unit	1CC
4-pole with RCD module						
90°angle connecting adapters						
For rear connection, 3-pole						
For rear connection, 4-pole						
Front connections						
3-pole		3VL9400-4PC30 _1)		1	1 unit	1CC
3-pole with RCD module		3VL9400-4PC40		1	1 unit	1CC
4-pole		3VL9400-4PD40		1	1 unit	1CC
4-pole with RCD module						
Withdrawable version assembly kits						
Upgrade of the plug-in base assembly kit to						
Withdrawable version including side panels and racking mechanism.	3-pole	3VL9400-4WF30 _1)		1	1 unit	1CC
	3-pole with RCD	3VL9400-4WF40		1	1 unit	1CC
	4-pole	3VL9400-4WG40		1	1 unit	1CC
	4-pole with RCD					
Withdrawable versions						
Same as plug-in base assembly kit, with additional side panels and racking mechanism						
Rear connections³⁾						
3-pole		3VL9400-4WA30 _1)		1	1 unit	1CC
3-pole with RCD module		3VL9400-4WA40		1	1 unit	1CC
4-pole		3VL9400-4WB40		1	1 unit	1CC
4-pole with RCD module						
Front connections						
3-pole		3VL9400-4WC30 _1)		1	1 unit	1CC
3-pole with RCD module		3VL9400-4WC40		1	1 unit	1CC
4-pole		3VL9400-4WD40		1	1 unit	1CC
4-pole with RCD module						
Blade contacts						
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin						
1 set = 6 units	3-pole	3VL9400-4PS30		1	1 unit	1CC
1 set = 8 units	4-pole	3VL9400-4PS40		1	1 unit	1CC
Trip pins and springs						
As replacement for plug-in/withdrawable circuit breaker						
3VL9400-4PF00						
Auxiliary circuit plug connections for plug-in bases						
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)						
8 terminals						
2)						
3VL9400-4PJ00						
1						
1 unit						
1CC						
Position signaling switches						
(Connected/disconnected position)						
For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible						
3VL9000-4WL00						
1						
1 unit						
1CC						



3VL9.00-4PA30



3VL9.00-4WA30



3VL9000-4WL00

1) For 3-pole applications please use 4-pole withdrawable version with 4-pole RCD module and 4-pole circuit breaker.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

3) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts



SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9500-4PA30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4PA40		1	1 unit	1CC		--				
	--						--				
	--						--				
	--						--				
	3VL9500-4PC30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4PC40		1	1 unit	1CC		--				
	--						--				
	3VL9500-4WF30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4WF40		1	1 unit	1CC		--				
	--						--				
	3VL9500-4WA30		1	1 unit	1CC		3VL9600-4WA30		1	1 unit	1CC
	--						--				
	3VL9500-4WA40		1	1 unit	1CC		3VL9600-4WA40		1	1 unit	1CC
	--						--				
	3VL9500-4WC30		1	1 unit	1CC		3VL9600-4WC30		1	1 unit	1CC
	--						--				
	3VL9500-4WC40		1	1 unit	1CC		3VL9600-4WC40		1	1 unit	1CC
	--						--				
	3VL9500-4PS30		1	1 unit	1CC		3VL9600-4PS30		1	1 unit	1CC
	3VL9500-4PS40		1	1 unit	1CC		3VL9600-4PS40		1	1 unit	1CC
	3VL9500-4PF00		1	1 unit	1CC		3VL9600-4PF00		1	1 unit	1CC
	2)						2)				
	3VL9600-4PJ00		1	1 unit	1CC		3VL9600-4PJ00		1	1 unit	1CC
	3VL9000-4WL00		1	1 unit	1CC		3VL9000-4WL00		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL1250 (3VL7) Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Plug-in versions/withdrawable versions						
 <p>3VL9.00-4PA30</p>	3 or 4-pole					
	Plug-in base assembly kits					
	Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin					
	Rear connections					
	3-pole		--			
	3-pole with RCD module		--			
	4-pole		--			
	4-pole with RCD module		--			
	90° angle connecting adapters					
	For rear connection, 3-pole		--			
For rear connection, 4-pole		--				
Front connections						
3-pole		--				
3-pole with RCD module		--				
4-pole		--				
4-pole with RCD module		--				
Withdrawable version assembly kits						
Upgrade of the plug-in base assembly kit to						
Withdrawable version including side panels and racking mechanism.	3-pole	--				
	3-pole with RCD	--				
	4-pole	--				
	4-pole with RCD	--				
 <p>3VL9.00-4WA30</p>	Withdrawable versions					
	Same as plug-in base assembly kit, with additional side panels and racking mechanism					
	Rear connections¹⁾					
	3-pole	3VL9800-4WA30		1	1 unit	1CC
	3-pole with RCD module	--				
	4-pole	3VL9800-4WA40		1	1 unit	1CC
	4-pole with RCD module	--				
	Front connections					
	3-pole	3VL9800-4WC30		1	1 unit	1CC
	3-pole with RCD module	--				
4-pole	3VL9800-4WC40		1	1 unit	1CC	
4-pole with RCD module	--					
Blade contacts						
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin						
1 set = 6 units	3-pole	3VL9800-4PS30		1	1 unit	1CC
1 set = 8 units	4-pole	3VL9800-4PS40		1	1 unit	1CC
Trip pins and springs						
As replacement for plug-in/withdrawable circuit breaker		3VL9800-4PF00		1	1 unit	1CC
Auxiliary circuit plug connections for plug-in bases						
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)		2)				
8 terminals		3VL9800-4PJ00		1	1 unit	1CC
Position signaling switches						
(Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible		3VL9000-4WL00		1	1 unit	1CC

3VL9000-4WL00

¹⁾ With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

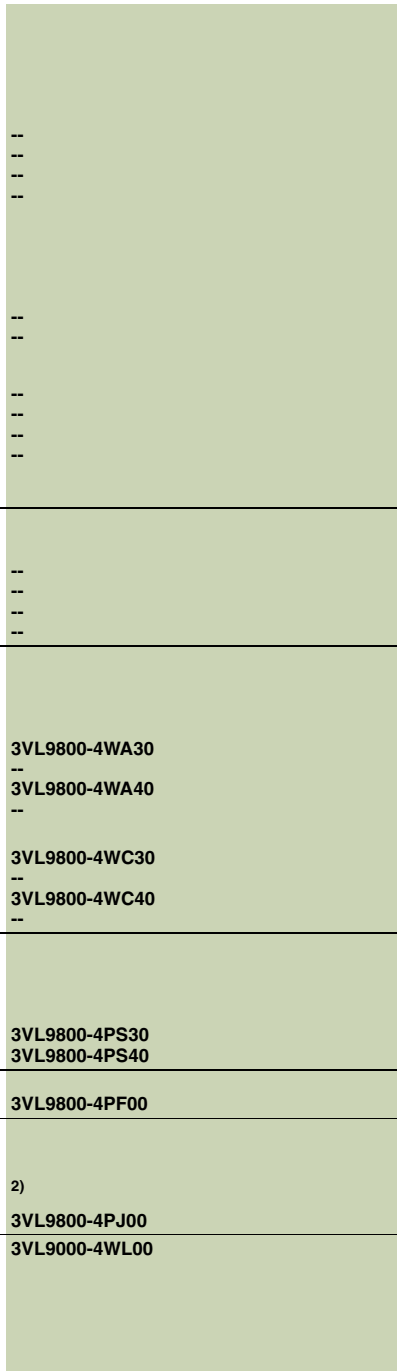
²⁾ It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.				



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3VL9800-4WA30
--
3VL9800-4WA40
--
3VL9800-4WC30
--
3VL9800-4WC40
--

1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC

3VL9800-4PS30
3VL9800-4PS40

1 1 unit 1CC
1 1 unit 1CC

3VL9800-4PF00

1 1 unit 1CC

2)

3VL9800-4PJ00
3VL9000-4WL00




1 1 unit 1CC
1 1 unit 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

	Circuit breakers for line protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} adjustable	Delay t_d adjustable	Rated operational voltage U_e	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	A	s	V AC	d					
RCD modules											
 <p>Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker</p>	3-pole										
	VL160X (3VL1)		0.03	Instantaneous							
	Bottom mounting ¹⁾²⁾	160	0.10	0.06	127 ... 480		3VL9112-5GA30		1	1 unit	1CC
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		3VL9216-5GC30		1	1 unit	1CC
			0.50	0.25	230 ... 690		3VL9216-5GD30		1	1 unit	1CC
	VL250 (3VL3)	250	1.00	0.50	127 ... 480		3VL9325-5GE30		1	1 unit	1CC
			3.00	1.00	230 ... 690		3VL9325-5GF30		1	1 unit	1CC
	VL400 (3VL4)	400			127 ... 480		--				
					230 ... 690		--				
	4-pole										
	VL160X (3VL1)		0.03	Instantaneous							
	Bottom mounting ¹⁾²⁾	160	0.10	0.06	127 ... 480		3VL9112-5GA40		1	1 unit	1CC
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		3VL9216-5GC40		1	1 unit	1CC
			0.50	0.25	230 ... 690		3VL9216-5GD40		1	1 unit	1CC
VL250 (3VL3)	250	1.00	0.50	127 ... 480		3VL9325-5GE40		1	1 unit	1CC	
		3.00	1.00	230 ... 690		3VL9325-5GF40		1	1 unit	1CC	
VL400 (3VL4)	400			127 ... 480		3VL9440-5GG40		1	1 unit	1CC	
				230 ... 690		3VL9440-5GH40		1	1 unit	1CC	
	Circuit breakers for line protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} adjustable	Delay t_d adjustable	Rated operational voltage U_e		3-pole circuit breakers		4-pole circuit breakers		
		A	A	s	V AC		Article No. with "-Z" 3VL...-D...-Z and additional order code <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions -Z	Additional price	Article No. with "-Z" 3VL...-E...-Z and additional order code <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions -Z	Additional price	
Circuit breakers with RCD module											
	3 and 4-pole										
	VL160X (3VL1)		0.03	Instantaneous							
	(Bottom mounting)	160	0.10	0.06	127 ... 480		A 0 1 ¹⁾²⁾		A 0 1 ¹⁾²⁾		
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		A 0 1		A 0 1		
			0.50	0.25	230 ... 690		A 0 2		A 0 2		
	VL250 (3VL3)	250			127 ... 480		A 0 1		A 0 1		
					230 ... 690		A 0 2		A 0 2		
	VL400 (3VL4)	400			127 ... 480		--		A 0 1		
					230 ... 690		--		A 0 2		
	Residual current devices (MRCD)										
	<p>Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.</p> <p>See chapter "Monitoring Devices".</p>										

¹⁾ Only the right-hand accessory compartment and the N conductor (4-pole) accessory compartment can be used for the installation of accessories, see Technical Information at www.siemens.com/lowvoltage/product-support.










²⁾ VL160X (3VL1) + RCD module cannot be combined with motorized operating mechanism, front operating mechanism, door-coupling rotary operating mechanism, locking device for toggle levers, screw terminal connections (3VL17...6-...) and Bowden cable interlocking.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article.No.				
Connection parts for fixed-mounted circuit breakers¹⁾						
3 or 4-pole						
Front connecting bars²⁾						
Phase barriers included.						
Standard						
		1 set = 3 units	3-pole	3VL9216-4EC30	1	1 unit 1CC
		1 set = 4 units	4-pole	3VL9216-4EC40	1	1 unit 1CC
3VL9216-4EC40		For increased pole spacing				
		1 set = 3 units	3-pole	3VL9216-4ED30	1	1 unit 1CC
		1 set = 4 units	4-pole	3VL9216-4ED40	1	1 unit 1CC
3VL9216-4ED40						
Rear connections						
Short connection (1 unit)						
Long connection (1 unit)						
Terminal kit (2 short + 1 long)						
			3-pole	3VL9100-4RC30	1	1 unit 1CC
3VL9.00-4RA00, 3VL9.00-4RB00			4-pole	3VL9100-4RF40	1	1 unit 1CC
Short flat connection (1 unit)						
Long flat connection (1 unit)						
Flat connector kit (2 short + 1 long)						
			3-pole	3VL9100-4RM30	1	1 unit 1CC
3VL9.00-4RK00, 3VL9.00-4RL00			4-pole	3VL9100-4RN40	1	1 unit 1CC
Box terminals						
Connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/product-support .						
1 set = 3 units						
1 set = 4 units						
				3VL9100-4TC30	1	1 unit 1CC
3VL9.00-4TC.0				3VL9100-4TC40	1	1 unit 1CC
Circular conductor terminals						
Only for cables (Al or Cu), aluminum terminal (tinned)						
1 set = 3 units						
1 set = 4 units						
				3VL9100-4TD30	1	1 unit 1CC
3VL9.00-4TD.0				3VL9100-4TD40	1	1 unit 1CC
Circular conductor terminals with terminal covers for cable (Al or Cu)						
1 set = 3 units						
1 set = 4 units						
				3VL9115-4TD30	1	1 unit 1CC
				3VL9115-4TD40	1	1 unit 1CC
Auxiliary conductor terminals						
For box terminals/circular conductor terminals						
1 set = 10 units						
				3VL9200-3TN00	1	1 unit 1CC
Terminals with screw connection - metric thread						
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support .						
1 set = 3 units						
1 set = 4 units						
				3VL9116-4TA30	1	1 unit 1CC
3VL9.00-4TA.0				3VL9116-4TA40	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers						
Degree of protection IP30 for main connections						
1 set = 2 units						
Extended						
Standard						
Extended						
Standard						
			3-pole	3VL9300-8CA30	1	1 unit 1CC
			3-pole	3VL9300-8CB30	1	1 unit 1CC
			4-pole	3VL9300-8CA40	1	1 unit 1CC
			4-pole	3VL9300-8CB40	1	1 unit 1CC
3VL9.00-3CB.0						
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
1 set = 2 units						
				3VL9300-8CE00	1	1 unit 1CC
3VL9.00-8CE00						








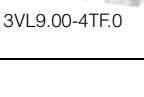




¹⁾ For an overview of connectable connection parts, see page 2/137.

²⁾ Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/product-support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

Version	SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection parts for fixed-mounted circuit breakers¹⁾						
3 or 4-pole						
Front connecting bars²⁾						
Phase barriers included.						
Standard						
		3-pole	3VL9216-4EC30	1	1 unit	1CC
3VL9216-4EC40		4-pole	3VL9216-4EC40	1	1 unit	1CC
For increased pole spacing						
		3-pole	3VL9216-4ED30	1	1 unit	1CC
3VL9216-4ED40		4-pole	3VL9216-4ED40	1	1 unit	1CC
Rear connections						
Short connection (1 unit)						
Long connection (1 unit)						
		3-pole	3VL9200-4RA00	1	1 unit	1CC
3VL9.00-4R.00		4-pole	3VL9200-4RB00	1	1 unit	1CC
Terminal kit (2 short + 1 long) 3-pole						
Terminal kit (2 short + 2 long) 4-pole						
Short flat connection (1 unit)						
Long flat connection (1 unit)						
		3-pole	3VL9200-4RC30	1	1 unit	1CC
3VL9.00-4R.00		4-pole	3VL9200-4RF40	1	1 unit	1CC
Flat connector kit (2 short + 1 long) 3-pole						
Flat connector kit (2 short + 2 long) 4-pole						
3-pole						
4-pole						
Box terminal						
Connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/product-support .						
			3VL9200-4TC30	1	1 unit	1CC
3VL9.00-4TC.0			3VL9200-4TC40	1	1 unit	1CC
Circular conductor terminals						
Only for cables (Al or Cu), aluminum terminal (tinned)						
			3VL9200-4TD30	1	1 unit	1CC
3VL9.00-4TD.0			3VL9200-4TD40	1	1 unit	1CC
Circular conductor terminals with terminal covers for cable (Al or Cu)						
			3VL9215-4TD30	1	1 unit	1CC
3VL9.00-4TD.0			3VL9215-4TD40	1	1 unit	1CC
Multiple feed-in terminal without terminal covers						
			--			
3VL9.00-4TF.0			--			
Multiple feed-in terminal with terminal covers						
			--			
3VL9.00-4TF.0			--			
Auxiliary conductor terminals						
For box terminals/circular conductor terminals/multiple feed-in terminals						
1 set = 10 units						
3VL9200-3TN00						
1						
1 unit						
1CC						
Terminals with screw connection - metric thread						
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support .						
			3VL9216-4TA30	1	1 unit	1CC
3VL9.00-4TA.0			3VL9216-4TA40	1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers						
Degree of protection IP30 for main connections						
1 set = 2 units						
		3-pole	3VL9300-8CA30	1	1 unit	1CC
3VL9.00-3CB.0		3-pole	3VL9300-8CB30	1	1 unit	1CC
		4-pole	3VL9300-8CA40	1	1 unit	1CC
		4-pole	3VL9300-8CB40	1	1 unit	1CC
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
			3VL9300-8CE00	1	1 unit	1CC
3VL9.00-3CB.0						

¹⁾ For an overview of connectable connection parts, see page 2/137.

²⁾ Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/product-support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC









Accessories and spare parts

SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9300-4EC30		1	1 unit	1CC		3VL9400-4EC30		1	1 unit	1CC
	3VL9300-4EC40		1	1 unit	1CC		3VL9400-4EC40		1	1 unit	1CC
	3VL9300-4ED30		1	1 unit	1CC		3VL9400-4ED30		1	1 unit	1CC
	3VL9300-4ED40		1	1 unit	1CC		3VL9400-4ED40		1	1 unit	1CC
	3VL9300-4RA00		1	1 unit	1CC		3VL9400-4RA00		1	1 unit	1CC
	3VL9300-4RB00		1	1 unit	1CC		3VL9400-4RB00		1	1 unit	1CC
	3VL9300-4RC30		1	1 unit	1CC		3VL9400-4RC30		1	1 unit	1CC
	3VL9300-4RF40		1	1 unit	1CC		3VL9400-4RF40		1	1 unit	1CC
	3VL9300-4RK00		1	1 unit	1CC		3VL9400-4RK00		1	1 unit	1CC
	3VL9300-4RL00		1	1 unit	1CC		3VL9400-4RL00		1	1 unit	1CC
	3VL9300-4RM30		1	1 unit	1CC		3VL9400-4RM30		1	1 unit	1CC
	3VL9300-4RN40		1	1 unit	1CC		3VL9400-4RN40		1	1 unit	1CC
	3VL9300-4TC30		1	1 unit	1CC		3VL9400-4TC30		1	1 unit	1CC
	3VL9300-4TC40		1	1 unit	1CC		3VL9400-4TC40		1	1 unit	1CC
	3VL9300-4TD30		1	1 unit	1CC		3VL9400-4TD30		1	1 unit	1CC
	3VL9300-4TD40		1	1 unit	1CC		3VL9400-4TD40		1	1 unit	1CC
	3VL9324-4TD30		1	1 unit	1CC		--				
	3VL9324-4TD40		1	1 unit	1CC		--				
	--						3VL9400-4TF30		1	1 unit	1CC
	--						3VL9400-4TF40		1	1 unit	1CC
	--						3VL9460-4TF30		1	1 unit	1CC
	--						3VL9460-4TF40		1	1 unit	1CC
	3VL9300-3TN00		1	1 unit	1CC		3VL9400-3TN00		1	1 unit	1CC
	3VL9300-4TA30		1	1 unit	1CC		3VL9400-4TA30		1	1 unit	1CC
	3VL9300-4TA40		1	1 unit	1CC		3VL9400-4TA40		1	1 unit	1CC
	3VL9300-8CA30		1	1 unit	1CC		3VL9400-8CA30		1	1 unit	1CC
	3VL9300-8CB30		1	1 unit	1CC		3VL9400-8CB30		1	1 unit	1CC
	3VL9300-8CA40		1	1 unit	1CC		3VL9400-8CA40		1	1 unit	1CC
	3VL9300-8CB40		1	1 unit	1CC		3VL9400-8CB40		1	1 unit	1CC
	3VL9300-8CE00		1	1 unit	1CC		3VL9600-8CE00		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

Version	SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection parts for fixed-mounted circuit breakers¹⁾						
3 or 4-pole						
Front connecting bars Phase barriers included.						
Standard						
 3VL9216-4EC40	1 set = 3 units	3-pole	3VL9500-4EC30 3VL9500-4EC40	1	1 unit	1CC
	1 set = 4 units	4-pole		1	1 unit	1CC
For increased pole spacing						
 3VL9216-4ED40	1 set = 3 units	3-pole	3VL9500-4ED30 3VL9500-4ED40	1	1 unit	1CC
	1 set = 4 units	4-pole		1	1 unit	1CC
Flat connecting bar (1 unit) Flat connecting bars Set = 3 units, 3-pole Flat connecting bars Set = 4 units, 4-pole						
 3VL9.00-4RG00			3VL9500-4RG00	1	1 unit	1CC
			3VL9500-4RH30	1	1 unit	1CC
			3VL9500-4RH40	1	1 unit	1CC
Multiple feed-in terminals Only for cables (Al or Cu) Aluminum terminal (tinned)						
 3VL9.00-4TG.0	1 set = 3 units		3VL9500-4TG30 3VL9500-4TG40	1	1 unit	1CC
	1 set = 4 units			1	1 unit	1CC
Auxiliary conductor terminals For multiple feed-in terminals 1 set = 10 units						
			3VL9400-3TN00	1	1 unit	1CC
Terminal plates²⁾ Connection for flexible flat copper busbar with auxiliary conductor connection 0.5 – 4 mm ² (extended terminal covers or phase barriers required)						
 3VL9.00-4TT.0	1 set = 3 units		3VL9500-4TT30 3VL9500-4TT40	1	1 unit	1CC
	1 set = 4 units			1	1 unit	1CC
Terminals with screw connection - metric thread With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support .						
 3VL9.00-4TA.0	1 set = 3 units		3VL9500-4TA30 3VL9500-4TA40	1	1 unit	1CC
	1 set = 4 units			1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers Degree of protection IP30 for main connections 1 set = 2 units						
 3VL9.00-3CB.0	Extended	3-pole	3VL9600-8CA30	1	1 unit	1CC
	Standard	3-pole	3VL9600-8CB30	1	1 unit	1CC
	Extended	4-pole	3VL9600-8CA40	1	1 unit	1CC
	Standard	4-pole	3VL9600-8CB40	1	1 unit	1CC
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions³⁾ 1 set = 2 units						
 3VL9.00-8CE00			3VL9600-8CE00	1	1 unit	1CC

¹⁾ For an overview of connectable connection parts, see page 2/137.

²⁾ Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9600-4EC30		1	1 unit	1CC		3VL9800-4EC30		1	1 unit	1CC
	3VL9600-4EC40		1	1 unit	1CC		3VL9800-4EC40		1	1 unit	1CC
	3VL9600-4ED30		1	1 unit	1CC		--				
	3VL9600-4ED40		1	1 unit	1CC		--				
	3VL9600-4RG00		1	1 unit	1CC		3VL9700-4RG00		1	1 unit	1CC
	3VL9600-4RH30		1	1 unit	1CC		3VL9700-4RH30		1	1 unit	1CC
	3VL9600-4RH40		1	1 unit	1CC		3VL9700-4RH40		1	1 unit	1CC
	3VL9600-4TG30		1	1 unit	1CC		3VL9700-4TG30		1	1 unit	1CC
	3VL9600-4TG40		1	1 unit	1CC		3VL9700-4TG40		1	1 unit	1CC
	3VL9400-3TN00		1	1 unit	1CC		3VL9400-3TN00		1	1 unit	1CC
	--						--				
	--						--				
	3VL9600-4TA30		1	1 unit	1CC		3VL9800-4TA30		1	1 unit	1CC
	3VL9600-4TA40		1	1 unit	1CC		3VL9800-4TA40		1	1 unit	1CC
	3VL9600-8CA30		1	1 unit	1CC		3VL9800-8CA30		1	1 unit	1CC
	3VL9600-8CB30		1	1 unit	1CC		3VL9800-8CB30		1	1 unit	1CC
	3VL9600-8CA40		1	1 unit	1CC		3VL9800-8CA40		1	1 unit	1CC
	3VL9600-8CB40		1	1 unit	1CC		3VL9800-8CB40		1	1 unit	1CC
	3VL9600-8CE00		1	1 unit	1CC		3VL9800-8CE00		1	1 unit	1CC







³⁾ Plug-in versions: not for VL1250 (3VL7),
withdrawable version: not for VL800 (3VL6) and VL1250 (3VL7).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG	
	d	Article No. www.siemens.com/product?Article No.					
Connection parts for fixed-mounted circuit breakers¹⁾							
3 or 4-pole							
Front connecting bars							
Phase barriers included.							
Standard ²⁾							
	1 set = 3 units	3-pole	3VL9800-4EC30	1	1 unit	1CC	
	1 set = 4 units	4-pole	3VL9800-4EC40	1	1 unit	1CC	
3VL9216-4EC40	For increased pole spacing						
	1 set = 3 units	3-pole	--				
	1 set = 4 units	4-pole	--				
3VL9216-4ED40	Rear connections						
	Flat connecting bar (1 unit)		3VL9800-4RG00	1	1 unit	1CC	
3VL9.00-4RG00	Flat connecting bars		3VL9800-4RH30	1	1 unit	1CC	
	Set = 3 units, 3-pole						
	Flat connecting bars		3VL9800-4RH40	1	1 unit	1CC	
	Set = 4 units, 4-pole						
Terminals with screw connection - metric thread							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support .							
	1 set = 3 units		3VL9800-4TA30	1	1 unit	1CC	
3VL9.00-4TA.0	1 set = 4 units		3VL9800-4TA40	1	1 unit	1CC	
Connection covers (terminal covers) for circuit breakers							
Degree of protection IP30 for main connections							
1 set = 2 units							
	Extended		3-pole	3VL9800-8CA30	1	1 unit	1CC
3VL9.00-3CB.0	Standard		3-pole	3VL9800-8CB30	1	1 unit	1CC
	Extended		4-pole	3VL9800-8CA40	1	1 unit	1CC
	Standard		4-pole	3VL9800-8CB40	1	1 unit	1CC
Phase barriers for circuit breakers, fixed-mounted							
	1 set = 2 units		3VL9800-8CE00	1	1 unit	1CC	
3VL9.00-8CE00							

¹⁾ For an overview of connectable connection parts, see page 2/137.

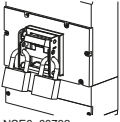
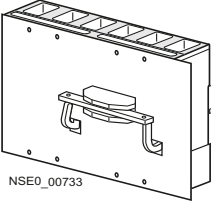
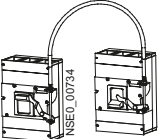
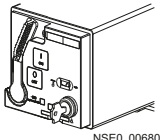
²⁾ In scope of supply of circuit breaker.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

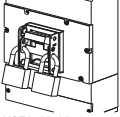
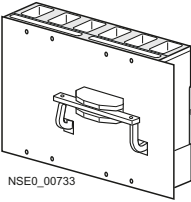
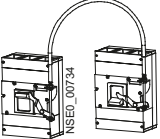
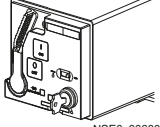
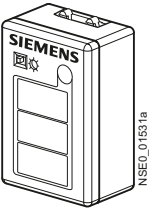
Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article.No.				
Interlocks						
3 or 4-pole						
Locking devices for toggle levers						
For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)						
 NSE0_00732 3VL9.00-3HL00		3VL9300-3HL00		1	1 unit	1CC
Rear interlocking modules						
For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply)						
 NSE0_00733 3VL9.00-8L.00		3VL9300-8LC00		1	1 unit	1CC
		3VL9300-8LD00		1	1 unit	1CC
Interlocking modules for Bowden cable interlocking¹⁾						
For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		3VL9300-8LA00		1	1 unit	1CC
Bowden cables for Bowden cable interlocking¹⁾						
		Cable length 0.5 m	3VL9000-8LH10	1	1 unit	1CC
		Cable length 1.0 m	3VL9000-8LH20	1	1 unit	1CC
		Cable length 1.5 m	3VL9000-8LH30	1	1 unit	1CC
Safety lock assembly kits						
Key can be removed with the circuit breaker in the "OFF" position						
For front-operated rotary operating mechanisms						
Lock types						
		Ronis	3VL9715-8HA00	1	1 unit	1CC
For motorized operating mechanism with stored energy mechanism						
Lock types						
		Ronis	--			
		Filli Giussani	3VL9321-8HA00	1	1 unit	1CC
 NSE0_00680 3VL9...-8HA00						
Sets of fixing screws (metric thread)						
Including the screws, washers and nuts required to secure a 3 or 4-pole circuit breaker to a prepared surface						
		Set with 4 screws	3VL9300-8SA40	1	1 unit	1CC
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Unit						
			--			
Thermal-magnetic						
			3VL9300-8BM00	1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

Version	SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.				
Interlocks						
 NSE0_00732		3 or 4-pole Locking devices for toggle levers For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)				
3VL9.00-3HL00		3VL9300-3HL00		1	1 unit	1CC
 NSE0_00733		Rear interlocking modules For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers				
3VL9.00-8L.00		3VL9300-8LC00 3VL9300-8LD00		1 1	1 unit 1 unit	1CC 1CC
 NSE0_00734		Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker				
3VL9.00-8LA00		Combinations with next size up/down possible (see Article No.) 3VL9300-8LA00		1	1 unit	1CC
		Bowden cables for Bowden cable interlocking ¹⁾ Cable length 0.5 m Cable length 1.0 m Cable length 1.5 m				
						3VL9000-8LH10 3VL9000-8LH20 3VL9000-8LH30
				1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
 NSE0_00680		Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms <u>Lock types</u> Ronis For motorized operating mechanism with stored energy mechanism <u>Lock types</u> Ronis Filli Giussani				
3VL9...-8HA00				1	1 unit	1CC
		Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a 3 or 4-pole circuit breaker to a prepared surface Set with 4 screws				
				1	1 unit	1CC
		Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) <u>Electronic Trip Unit</u> <u>Thermal-magnetic</u>				
				1 1	1 unit 1 unit	1CC 1CC
 NSE0_01633 18		Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs (two 9 V blocks are required in addition)				
3VL9000-8AP01		3VL9000-8AP01		1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

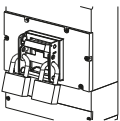
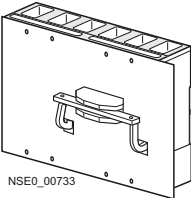
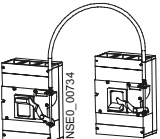
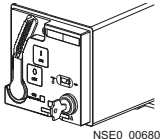
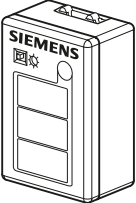
Accessories and spare parts

SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9300-3HL00		1	1 unit	1CC		3VL9400-3HL00		1	1 unit	1CC
	3VL9300-8LC00		1	1 unit	1CC		3VL9400-8LC00		1	1 unit	1CC
	3VL9300-8LD00		1	1 unit	1CC		3VL9400-8LD00		1	1 unit	1CC
	3VL9300-8LA00		1	1 unit	1CC		3VL9400-8LA00		1	1 unit	1CC
	3VL9000-8LH10		1	1 unit	1CC		--				
	3VL9000-8LH20		1	1 unit	1CC		3VL9000-8LH20		1	1 unit	1CC
	3VL9000-8LH30		1	1 unit	1CC		3VL9000-8LH30		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		3VL9715-8HA00		1	1 unit	1CC
	--						3VL9715-8HA00		1	1 unit	1CC
	3VL9321-8HA00		1	1 unit	1CC		--				
	3VL9300-8SA40		1	1 unit	1CC		3VL9500-8SA40		1	1 unit	1CC
	3VL9700-8BL00		1	1 unit	1CC		3VL9700-8BL00		1	1 unit	1CC
	3VL9300-8BM00		1	1 unit	1CC		3VL9400-8BM00		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

Version	SD	For VL630 (3VL5) Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
3 or 4-pole						
Locking devices for toggle levers						
For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)						
 NSE0_00732 3VL9.00-3HL00		3VL9600-3HL00		1	1 unit	1CC
Rear interlocking modules						
For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply)						
Fixed-mounted circuit breakers						
Plug-in/withdrawable circuit breakers						
 NSE0_00733 3VL9.00-8L.00		3VL9600-8LC00 3VL9600-8LD00		1 1	1 unit 1 unit	1CC 1CC
Interlocking modules for Bowden cable interlocking¹⁾						
For the mechanical interlocking of two circuit breakers.						
Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		3VL9600-8LA00		1	1 unit	1CC
Bowden cables for Bowden cable interlocking¹⁾						
Cable length 0.5 m						
Cable length 1.0 m						
Cable length 1.5 m						
		-- 3VL9000-8LH20 3VL9000-8LH30		1 1	1 unit 1 unit	1CC 1CC
Safety lock assembly kits						
Key can be removed with the circuit breaker in the "OFF" position						
For front-operated rotary operating mechanisms						
Lock types						
Ronis						
3VL9715-8HA00						
For motorized operating mechanism with stored energy mechanism						
Lock types						
Ronis						
3VL9715-8HA00						
Filli Giussani						
--						
 NSE0_00680 3VL9...-8HA00				1	1 unit	1CC
Sets of fixing screws (metric thread)						
Including the screws, washers and nuts required to secure a 3 or 4-pole circuit breaker to a prepared surface						
Set with 4 screws						
		3VL9500-8SA40		1	1 unit	1CC
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Units						
Thermal-magnetic						
		3VL9700-8BL00 3VL9600-8BM00		1 1	1 unit 1 unit	1CC 1CC
Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs (two 9 V blocks are required in addition)						
 NSE0_01531a 3VL9000-8AP01		3VL9000-8AP01		1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

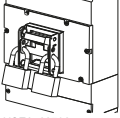
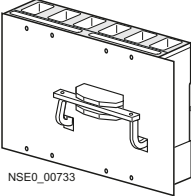
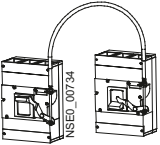
Accessories and spare parts

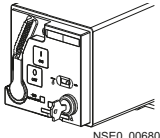
SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9600-3HL00		1	1 unit	1CC		3VL9800-3HL00		1	1 unit	1CC
	3VL9600-8LC00		1	1 unit	1CC		3VL9800-8LC00		1	1 unit	1CC
	3VL9600-8LD00		1	1 unit	1CC		3VL9800-8LD00		1	1 unit	1CC
	3VL9600-8LA00		1	1 unit	1CC		3VL9800-8LA00		1	1 unit	1CC
	--						--				
	3VL9000-8LH20		1	1 unit	1CC		--				
	3VL9000-8LH30		1	1 unit	1CC		3VL9000-8LH30		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		3VL9715-8HA00		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		3VL9715-8HA00		1	1 unit	1CC
	--						--				
	3VL9600-8SA40		1	1 unit	1CC		3VL9800-8SA40		1	1 unit	1CC
	3VL9700-8BL00		1	1 unit	1CC		3VL9700-8BL00		1	1 unit	1CC
	--						--				
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

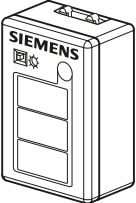
Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

Version	SD	For VL1600 (3VL8) Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
3 or 4-pole						
Locking devices for toggle levers						
For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)						
 NSE0_00732 3VL9.00-3HL00		3VL9800-3HL00		1	1 unit	1CC
Rear interlocking modules						
For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and frame size. Circuit breakers, fixed-mounted ¹⁾ Plug-in/withdrawable circuit breakers						
 NSE0_00733 3VL9.00-8L.00		3VL9800-8LC00 3VL9800-8LD00		1 1	1 unit 1 unit	1CC 1CC
Interlocking modules for Bowden cable interlocking²⁾						
For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		3VL9800-8LA00		1	1 unit	1CC
Bowden cables for Bowden cable interlocking²⁾						
Cable length 0.5 m						
Cable length 1.0 m						
Cable length 1.5 m						
		3VL9000-8LH30		1	1 unit	1CC
Safety lock assembly kits						
Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms						
Lock types						
Ronis						
3VL9715-8HA00						
For motorized operating mechanisms						
Lock types						
Ronis						
3VL9715-8HA00						
Filli Giussani						

 NSE0_00680 3VL9...-8HA00				1	1 unit	1CC
Sets of fixing screws (metric thread)						
Including the screws, washers and nuts required to secure a 3 or 4-pole circuit breaker to a prepared surface Set with 4 screws						
		3VL9800-8SA40		1	1 unit	1CC
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Unit						
3VL9700-8BL00						
Thermal-magnetic						

Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs (two 9 V blocks are required in addition)						
 NSE0_01531a 3VL9000-8AP01		3VL9000-8AP01		1	1 unit	1CC

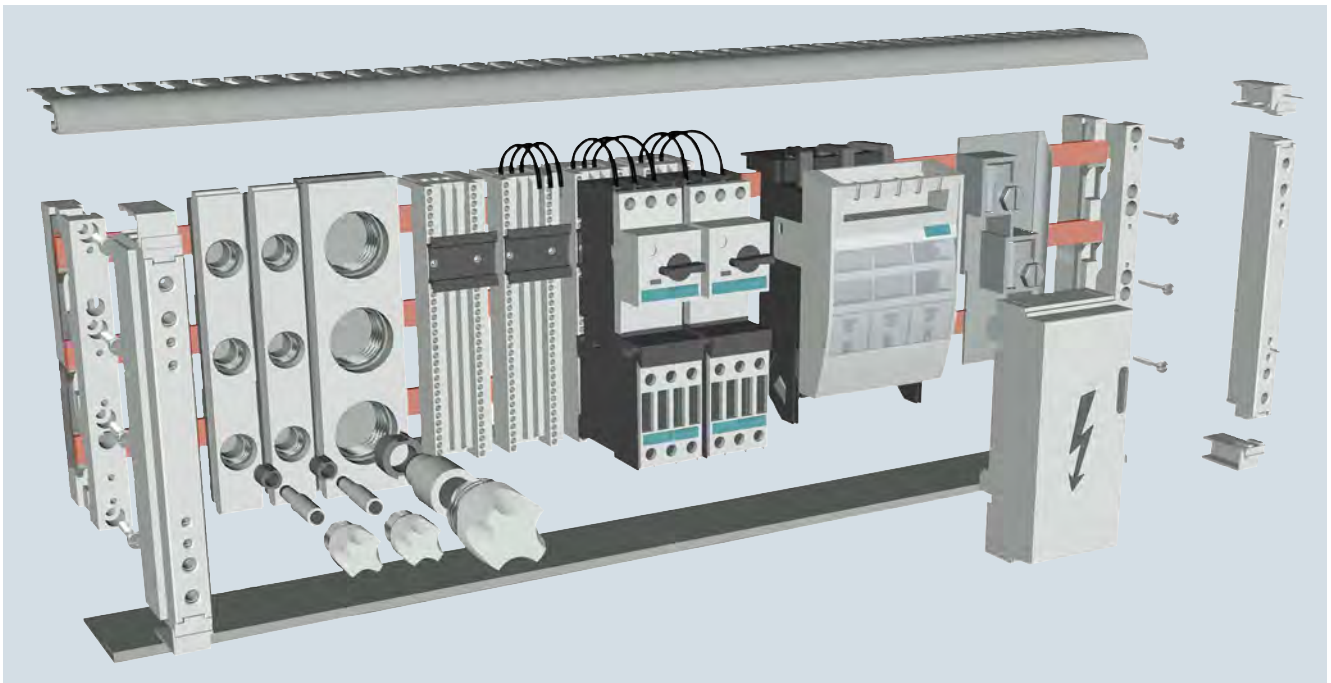
¹⁾ Mounting plate not included in scope of supply.

²⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

Transfer control devices

3KC ATC5300 and **NEW** ATC3100 transfer control devices. For combination with two air circuit breakers/molded case circuit breakers for changeover according to 60947-6-1.

For more information, see chapter "Transfer Switching Equipment and Load Transfer Switches".

Busbar systems

Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

For more information, see chapter "Busbar Systems".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

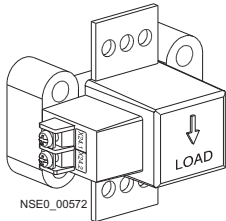
Accessories and spare parts

2

Type	Rated current I_n	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					

Further accessories

Current transformers (-T6) for N conductor/grounded neutral point of the transformer for ground-fault protection in 4-wire three-phase systems ¹⁾



VL160/3VL2	63, 80		3VL9280-8TC00		1	1 unit	1CC
	100		3VL9210-8TC00		1	1 unit	1CC
	160		3VL9216-8TC00		1	1 unit	1CC
VL250/3VL3	200		3VL9320-8TC00		1	1 unit	1CC
	250		3VL9325-8TC00		1	1 unit	1CC
VL400/3VL4	315		3VL9440-8TC00		1	1 unit	1CC
	400		3VL9440-8TC00		1	1 unit	1CC
VL630/3VL5	630		3VL9563-8TC00		1	1 unit	1CC
VL800/3VL6	800		3VL9680-8TC00		1	1 unit	1CC
VL1250/3VL7	1000		3VL9712-8TC00		1	1 unit	1CC
	1250		3VL9712-8TC00		1	1 unit	1CC
VL1600/3VL8	1600		3VL9816-8TC00		1	1 unit	1CC

¹⁾ Please note the rated current of the circuit breaker.

Current transformers for measuring purposes



4NC53 current transformer

See also chapter "Measuring Devices and Power Monitoring" under Accessories.

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Accessories for communication

3 or 4-pole

Data transmission through COM20, COM21

VL160 (3VL2) to VL1600 (3VL8)

COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs

Module for connecting the 3VL molded case circuit breaker to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AU00

1 1 unit 1CC

COM21 Release 2 (MODBUS RTU module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs

Module for connecting the 3VL molded case circuit breaker to the MODBUS RTU, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AV00

1 1 unit 1CC

Connecting cable ETU - COM20/COM21

For VL160 ... VL250, length 3 m
For VL630 ... VL1600, length 3 m
For VL400, length 3 m

3VL9000-8AQ81

1 1 unit 1CC

3VL9000-8AQ71

1 1 unit 1CC

3VL9000-8AQ61

1 1 unit 1CC

Addressing plugs

For assigning the module addresses without using a PC/PG

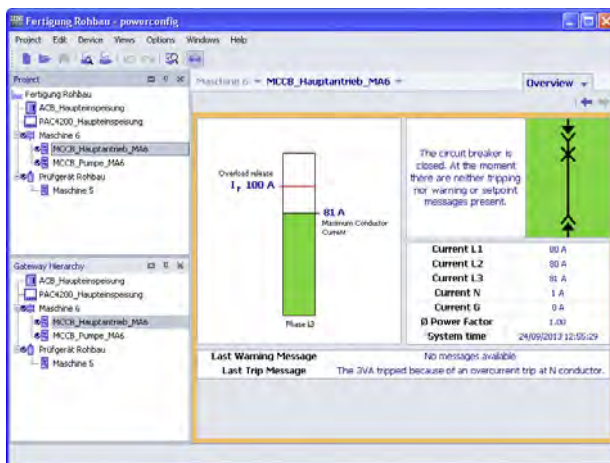
On COM20/COM21 through the system interface



3UF7910-0AA00-0

1 1 unit 42J

powerconfig parameterization software



Parameterization, operation, monitoring and diagnostics of 3VL molded case circuit breakers using powerconfig software see chapter "Software" "Configuring, Visualizing and Controlling with SENTRON".

powerconfig is available free of charge at

<http://support.automation.siemens.com/WWW/view/en/63452759>

You can find more information on the Internet at:

www.siemens.com/sentron

Communication:

- For molded case circuit breakers with communication function, see pages 2/142 to 2/159, 2/170 to 2/180.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

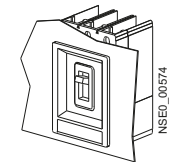
2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.				

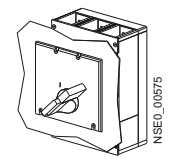
Further accessories

3 or 4-pole

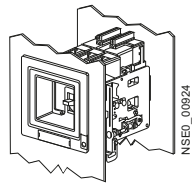
Masking frames (cover frames) for door cut-outs



Masking frame A



Masking frame 5



Masking frame C

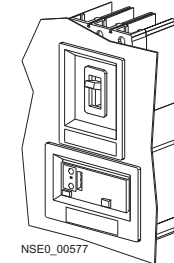
A IP40	Fixed-mounted or plug-in circuit breaker	3VL9300-8BC00		1	1 unit	1CC
B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (with or without SEO/MO stored energy mechanisms)	3VL9300-8BG00		1	1 unit	1CC
C IP20	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	--				
D IP40	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	3VL9300-8BD00 3VL9300-8BD00		1 1	1 unit 1 unit	1CC 1CC
E¹⁾ IP40	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.	--				
	Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon.	--				

Version	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.				

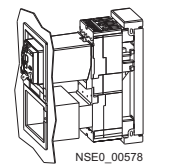
Further accessories

3 or 4-pole

Masking frames (cover frames) for door cut-outs



Masking frame D



Masking frame E

A IP40	Fixed-mounted or plug-in circuit breaker	3VL9400-8BC00		1	1 unit	1CC
B¹⁾²⁾ IP40	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms)	3VL9400-8BG00		1	1 unit	1CC
C IP20	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	3VL9400-8BH00		1	1 unit	1CC
D IP40	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	3VL9400-8BC00 3VL9400-8BD00		1 1	1 unit 1 unit	1CC 1CC
E¹⁾ IP40	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.	3VL9400-8BH00		1	1 unit	1CC
	Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon.	3VL9400-8BJ00		1	1 unit	1CC

¹⁾ For withdrawable version IP20.

²⁾ For motorized operating mechanisms (without stored energy mechanism) for 3VL4-3VL6, use the Article No. 3VL9300-8BG00.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9300-8BC00		1	1 unit	1CC		3VL9300-8BC00		1	1 unit	1CC
	3VL9300-8BG00		1	1 unit	1CC		3VL9300-8BG00		1	1 unit	1CC
	3VL9300-8BH00		1	1 unit	1CC		3VL9300-8BH00		1	1 unit	1CC
	3VL9300-8BC00		1	1 unit	1CC		3VL9300-8BC00		1	1 unit	1CC
	3VL9300-8BD00		1	1 unit	1CC		3VL9300-8BD00		1	1 unit	1CC
	3VL9300-8BH00		1	1 unit	1CC		3VL9300-8BH00		1	1 unit	1CC
	3VL9300-8BJ00		1	1 unit	1CC		3VL9300-8BJ00		1	1 unit	1CC

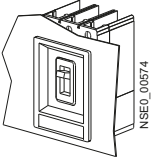
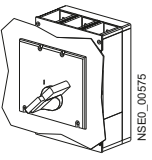
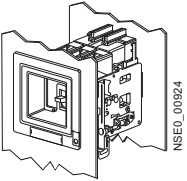
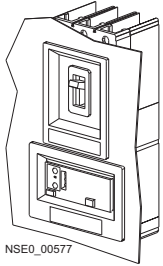
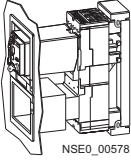
SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9600-8BC00		1	1 unit	1CC		3VL9600-8BC00		1	1 unit	1CC
	3VL9600-8BG00		1	1 unit	1CC		3VL9600-8BG00		1	1 unit	1CC
	3VL9600-8BH00		1	1 unit	1CC		3VL9600-8BH00		1	1 unit	1CC
	--						--				
	--						--				
	--						--				
	--						--				

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Further accessories						
3 or 4-pole						
Masking frames (cover frames) for door cut-outs						
 Masking frame A	A IP40	Fixed-mounted or plug-in circuit breaker	3VL9800-8BC00	1	1 unit	1CC
 Masking frame 5	B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism.	3VL9800-8BG00	1	1 unit	1CC
 Masking frame C	C IP20	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	3VL9800-8BH00	1	1 unit	1CC
 Masking frame D	D IP40	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	-- --			
 Masking frame E	E¹⁾ IP40	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon. Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon.	-- --			

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.				

	3VL9800-8BC00		1	1 unit	1CC
	3VL9800-8BG00		1	1 unit	1CC
	3VL9800-8BH00		1	1 unit	1CC
	--				
	--				
	--				
	--				

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

More information

2

Manual for the 3VL molded case circuit breaker

This manual contains additional technical information, covering a product description, mode of operation, electrical wiring system and retrofitting.

The manual and operating instructions are available in PDF format at:

www.siemens.com/lowvoltage/manuals

SENTRON manual for communication solutions

Free download from
www.siemens.com/lowvoltage/manuals

See chapter "Software", "3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Accessories and spare parts".

Note

You will find the 3VL molded case circuit breakers up to 1600 A according to UL 489 from page [2/228](#) onwards.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

Overview

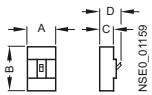
2



Type VL150X UL, CG frame VL150 UL, DG frame VL250 UL, FG frame VL400 UL, JG frame

Molded case circuit breakers

3VL molded case circuit breakers up to 1600 A, according to UL 489

Rated current $I_n^{1)}$ at 40 °C ambient temperature	A	20 to 150	50 to 150	100 to 250	250 to 400
Number of poles		3	3	3	3
Rated operational voltage U_e (UL) 50/60 Hz AC	V	480, 600/347	480, 600/347	400, 600/347	600
DC ²⁾	V	250	500	500	500
Trip units					
Thermal-magnetic		✓	✓	✓	✓
Electronic, ETU with setting knobs		--	✓	✓	✓
Electronic LCD ETU		--	✓	✓	✓
Dimensions					
					
A	mm	105	105	105	139
B	mm	157	175	175	279
C	mm	81	81	81	102
D	mm	107	107	107	138

Breaking capacity

Standard breaking capacity N N

Up to 240 V AC	kA	65	65	65	65
Up to 480 V AC	kA	35	35	35	35
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC ³⁾	kA	30	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	18	25
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	40/40	40/40	40/40	45/45
Up to 690 V AC	kA	8/4 ⁵⁾	12/6	12/6	12/6
Up to 250 V DC ³⁾	kA	30/30	30/30	30/30	30/30

High breaking capacity H H

Up to 240 V AC	kA	100	100	100	100
Up to 480 V AC	kA	65	65	65	65
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC ³⁾	kA	30	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	25	35
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 690 V AC	kA	10/5 ⁵⁾	12/6	12/6	15/8
Up to 250 V DC ³⁾	kA	30/30	30/30	30/30	30/30

Very high breaking capacity L L

Up to 240 V AC	kA	--	200	200	200
Up to 480 V AC	kA	--	100	100	100
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	--	18	18	--
Up to 250 V DC ³⁾	kA	--	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	30	35
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC ³⁾	kA	--	30/30	30/30	30/30

✓ Available -- Not available

¹⁾ 80% rated current applications according to UL 489, 100% rated current applications according to IEC 60947-2.

²⁾ Rated DC voltage applies only for molded case circuit breakers with thermal-magnetic release.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction



VL400X UL, LG frame



VL800 UL, MG frame



VL1200 UL, NG frame



VL1600 UL, PG frame

3VL molded case circuit breakers up to 1600 A, according to UL 489

400 to 600

600 to 800

800 to 1200

1200 to 1600

3

3

3

3

600
500600
500600
500600
500✓
✓
✓✓
✓
✓✓
✓
✓✓
✓
✓139
279
102
138190
406
118
151229
406
157
209229
406
157
20965
35
18
--65
35
25
--65
35
25
--65
35
25
--30
2522
3522
3522
3565/65
45/45
12/6
30/3065/65
50/50
20/10
30/3065/35
50/25
20/10
30/3065/35
50/25
20/10
30/30100
65
18
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30
35100
65
35
--
25
50100
65
35
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25
50100
65
35
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25
50100/75
70/70
15/8
30/30100/75
70/70
20/10
30/30100/50
70/35
30/15
30/30100/50
70/35
30/15
30/30200
100
18
--
30
35200
100
50
--
42
65200
100
65
--
42
65200
100
65
--
42
65200/150
100/75
15/8
30/30200/150
100/75
20/10
30/30200/100
100/50
35/17
30/30200/100
100/50
35/17
30/30

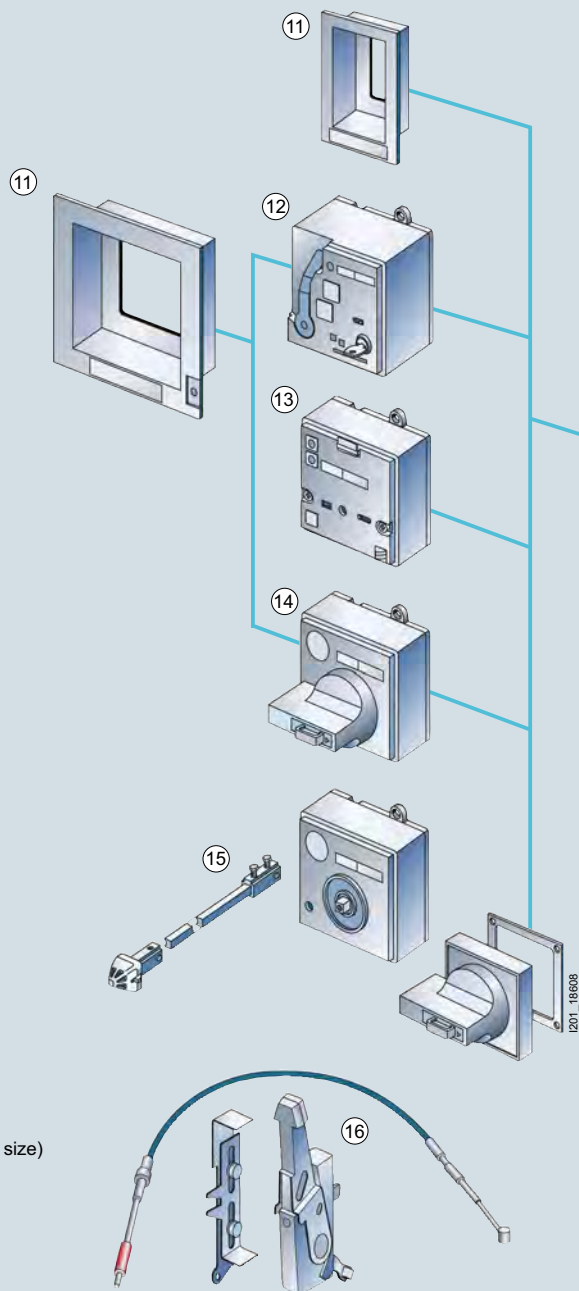
- 3) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications.
 4) 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)
 5) Rated current $I_n \geq 25$ A.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

2



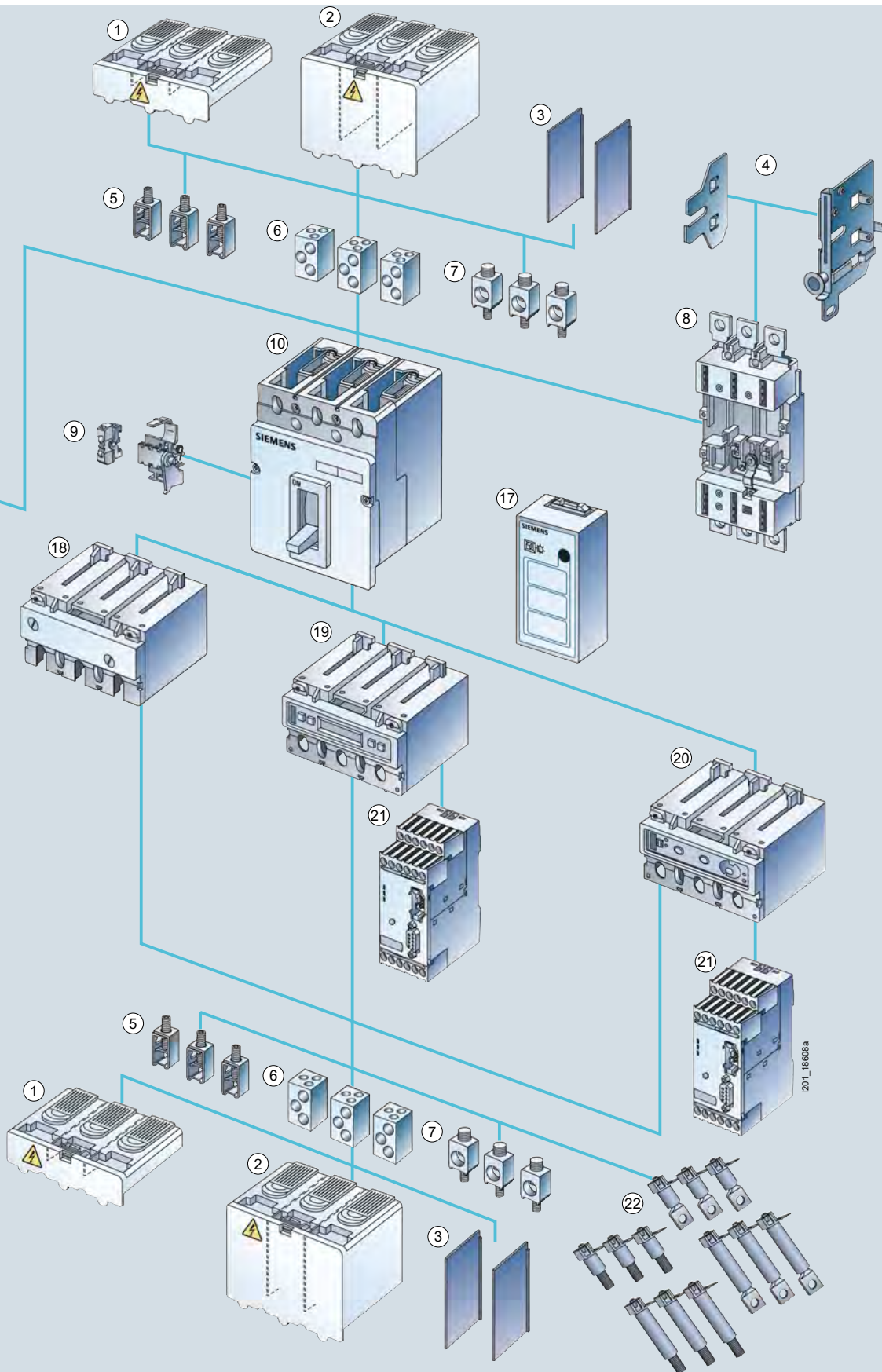
- ① Standard terminal cover
- ② Extended terminal cover
- ③ Phase barriers
- ④ Side walls of the withdrawable unit
- ⑤ Box terminal for Cu
- ⑥ Multiple feed-in terminal for Al/Cu (dependent on frame size)
- ⑦ Circular conductor terminals for Al/Cu
- ⑧ Withdrawable/plug-in base
- ⑨ Internal accessories
- ⑩ 3VL molded case circuit breaker
- ⑪ Cover frame for door cut-out
- ⑫ Motorized operating mechanisms with stored energy feature (SEO), CG to MG frame only
- ⑬ Motorized operating mechanisms (MO), NG and PG frame only
- ⑭ Front-operated rotary operating mechanisms
- ⑮ Door-coupling rotary operating mechanisms
- ⑯ Operating unit with Bowden cable (Max Flex operator)
- ⑰ Battery power supply with test function for Electronic Trip Units
- ⑱ Thermal-magnetic release
- ⑲ Electronic Trip Unit with LCD (LCD ETU)
- ⑳ Electronic Trip Unit with setting knobs (ETU)
- ㉑ Communication module COM20/21 (Release 2)
- ㉒ Rear terminals – flat and round

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

2



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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

Benefits

2



- 3VL molded case circuit breakers according to UL 489 optimally fulfill the high demands prevalent in modern power distribution.
- The molded case circuit breakers have a compact design and at the same time a high breaking capacity of up to 100 kA at 480 V.
- They are available both in thermal-magnetic (20 A to 1600 A) and in electronic versions (60 A to 1600 A).
- Via PROFIBUS DP and Modbus RTU, the molded case circuit breakers with Electronic Trip Units (ETUs) are consistently communication-capable.

Application

The different versions of 3VL molded case circuit breakers according to UL are suitable for the following applications:

- Incoming circuit breakers (feeders) and outgoing circuit breakers (branches) in distribution systems
- Switching and protection devices for motors (motor protection in combination with a contactor and motor protection relay), transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms.

The 3VL molded case circuit breakers according to UL are available in the following versions:

1. For line protection
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For starter combinations
These molded case circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of molded case circuit breakers, overload relays and motor contactors. These molded case circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
3. As non-automatic circuit breakers
These molded case circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system.

Breaking capacity

N	Molded case circuit breakers with standard breaking capacity N (up to 35 kA at 480 V)
H	Molded case circuit breakers with high breaking capacity H (up to 65 kA at 480 V)
L	Molded case circuit breakers with very high breaking capacity L (up to 100 kA at 480 V)

Standards and specifications

3VL molded case circuit breakers according to UL comply with:

UL 489,
CSA (CSA C22.2 No. 5),
IEC/EN 60947-2,
For isolating features acc. to IEC 60947-2, EN 60947-2,
NOM (NMJ-J-266-ANCE) please inquire.
CCC (only VL2 UL/DG, VL3 UL/FG, VL4 UL/JG and VL4X UL/LG)
GOST and FireSafety (Russia)

The 3VL UL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow).

Please contact Siemens for details of other standards.

Operating conditions

The 3VL molded case circuit breakers according to UL are designed for operation in enclosed areas.

Molded Case Circuit Breakers

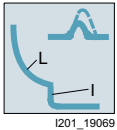
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

Selection and ordering data

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview" .	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d	Article No. www.siemens.com/product?Article.No. Article No. supplement required, see page 2/250				

Fixed-mounted molded case circuit breakers, VL150X UL (CG frame) up to VL1600 UL (PG frame), thermal-magnetic releases (UL file: E10848, CCN¹⁾: DIVQ)



Line protection, TM, LI function

With fixed thermal overcurrent releases, adjustable short-circuit releases,

VL150X UL: fixed short-circuit trip releases

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", [pages 2/265 to 2/268](#) or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", [pages 2/269 to 2/276](#).

VL150X UL, CG frame	20	20	300	3VL1102-1KN30-□□□□	1	1 unit	1CC
	25	25	300	3VL1125-1KN30-□□□□	1	1 unit	1CC
	30	30	300	3VL1103-1KN30-□□□□	1	1 unit	1CC
	35	35	600	3VL1135-1KN30-□□□□	1	1 unit	1CC
	40	40	600	3VL1104-1KN30-□□□□	1	1 unit	1CC
	50	50	600	3VL1105-1KN30-□□□□	1	1 unit	1CC
	60	60	600	3VL1106-1KN30-□□□□	1	1 unit	1CC
	70	70	1000	3VL1107-1KN30-□□□□	1	1 unit	1CC
	80	80	1000	3VL1108-1KN30-□□□□	1	1 unit	1CC
	90	90	1000	3VL1191-1KN30-□□□□	1	1 unit	1CC
	100	100	1000	3VL1110-1KN30-□□□□	1	1 unit	1CC
VL150 UL, DG frame	125	125	1000	3VL1112-1KN30-□□□□	1	1 unit	1CC
	150	150	1500	3VL1115-1KN30-□□□□	1	1 unit	1CC
	50	50	450 ... 700	3VL2505-1KN30-□□□□	1	1 unit	1CC
	60	60	450 ... 700	3VL2506-1KN30-□□□□	1	1 unit	1CC
	70	70	450 ... 700	3VL2507-1KN30-□□□□	1	1 unit	1CC
	80	80	450 ... 800	3VL2508-1KN30-□□□□	1	1 unit	1CC
	90	90	500 ... 1000	3VL2591-1KN30-□□□□	1	1 unit	1CC
	100	100	500 ... 1000	3VL2510-1KN30-□□□□	1	1 unit	1CC
VL250 UL, FG frame	110	110	550 ... 1100	3VL2511-1KN30-□□□□	1	1 unit	1CC
	125	125	625 ... 1250	3VL2512-1KN30-□□□□	1	1 unit	1CC
	150	150	800 ... 1600	3VL2515-1KN30-□□□□	1	1 unit	1CC
	100	100	625 ... 1250	3VL3510-1KN30-□□□□	1	1 unit	1CC
	110	110	800 ... 1600	3VL3511-1KN30-□□□□	1	1 unit	1CC
	125	125	800 ... 1600	3VL3512-1KN30-□□□□	1	1 unit	1CC
	150	150	800 ... 1600	3VL3515-1KN30-□□□□	1	1 unit	1CC
	175	175	1000 ... 2000	3VL3517-1KN30-□□□□	1	1 unit	1CC
VL400 UL, JG frame	200	200	1000 ... 2000	3VL3520-1KN30-□□□□	1	1 unit	1CC
	225	225	1250 ... 2500	3VL3522-1KN30-□□□□	1	1 unit	1CC
	250	250	1250 ... 2500	3VL3525-1KN30-□□□□	1	1 unit	1CC
	250	250	1250 ... 2500	3VL4125-1KN30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	300	300	1500 ... 3000	3VL4130-1KN30-□□□□	1	1 unit	1CC
	350	350	1750 ... 3500	3VL4135-1KN30-□□□□	1	1 unit	1CC
	400	400	2000 ... 4000	3VL4140-1KN30-□□□□	1	1 unit	1CC
	400	400	2000 ... 4000	3VL4840-1KN30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	500	500	2500 ... 5000	3VL4850-1KN30-□□□□	1	1 unit	1CC
	600	600	2750 ... 5500	3VL4860-1KN30-□□□□	1	1 unit	1CC
	600	600	3000 ... 6000	3VL6160-1KN30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	700	700	3250 ... 6500	3VL6170-1KN30-□□□□	1	1 unit	1CC
	800	800	3250 ... 6500	3VL6180-1KN30-□□□□	1	1 unit	1CC
	800	800	4000 ... 8000	3VL7180-1KN30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	900	900	5000 ... 10000	3VL7190-1KN30-□□□□	1	1 unit	1CC
	1000	1000	5000 ... 10000	3VL7110-1KN30-□□□□	1	1 unit	1CC
	1200	1200	7000 ... 12000	3VL7112-1KN30-□□□□	1	1 unit	1CC
	1200	1200	7000 ... 12000	3VL8112-1KN30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1400	1400	7000 ... 12000	3VL8114-1KN30-□□□□	1	1 unit	1CC
	1600	1600	7000 ... 12000	3VL8116-1KN30-□□□□	1	1 unit	1CC

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see [page 2/276](#)).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)					
	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement required, see page 2/250					Article No. supplement required, see page 2/250				

3VL1102-2KN30-□□□□	1	1 unit	1CC	--			
3VL1125-2KN30-□□□□	1	1 unit	1CC	--			
3VL1103-2KN30-□□□□	1	1 unit	1CC	--			
3VL1135-2KN30-□□□□	1	1 unit	1CC	--			
3VL1104-2KN30-□□□□	1	1 unit	1CC	--			
3VL1105-2KN30-□□□□	1	1 unit	1CC	--			
3VL1106-2KN30-□□□□	1	1 unit	1CC	--			
3VL1107-2KN30-□□□□	1	1 unit	1CC	--			
3VL1108-2KN30-□□□□	1	1 unit	1CC	--			
3VL1191-2KN30-□□□□	1	1 unit	1CC	--			
3VL1110-2KN30-□□□□	1	1 unit	1CC	--			
3VL1112-2KN30-□□□□	1	1 unit	1CC	--			
3VL1115-2KN30-□□□□	1	1 unit	1CC	--			
3VL2505-2KN30-□□□□	1	1 unit	1CC	3VL2505-3KN30-□□□□	1	1 unit	1CC
3VL2506-2KN30-□□□□	1	1 unit	1CC	3VL2506-3KN30-□□□□	1	1 unit	1CC
3VL2507-2KN30-□□□□	1	1 unit	1CC	3VL2507-3KN30-□□□□	1	1 unit	1CC
3VL2508-2KN30-□□□□	1	1 unit	1CC	3VL2508-3KN30-□□□□	1	1 unit	1CC
3VL2591-2KN30-□□□□	1	1 unit	1CC	3VL2591-3KN30-□□□□	1	1 unit	1CC
3VL2510-2KN30-□□□□	1	1 unit	1CC	3VL2510-3KN30-□□□□	1	1 unit	1CC
3VL2511-2KN30-□□□□	1	1 unit	1CC	3VL2511-3KN30-□□□□	1	1 unit	1CC
3VL2512-2KN30-□□□□	1	1 unit	1CC	3VL2512-3KN30-□□□□	1	1 unit	1CC
3VL2515-2KN30-□□□□	1	1 unit	1CC	3VL2515-3KN30-□□□□	1	1 unit	1CC
3VL3510-2KN30-□□□□	1	1 unit	1CC	3VL3510-3KN30-□□□□	1	1 unit	1CC
3VL3511-2KN30-□□□□	1	1 unit	1CC	3VL3511-3KN30-□□□□	1	1 unit	1CC
3VL3512-2KN30-□□□□	1	1 unit	1CC	3VL3512-3KN30-□□□□	1	1 unit	1CC
3VL3515-2KN30-□□□□	1	1 unit	1CC	3VL3515-3KN30-□□□□	1	1 unit	1CC
3VL3517-2KN30-□□□□	1	1 unit	1CC	3VL3517-3KN30-□□□□	1	1 unit	1CC
3VL3520-2KN30-□□□□	1	1 unit	1CC	3VL3520-3KN30-□□□□	1	1 unit	1CC
3VL3522-2KN30-□□□□	1	1 unit	1CC	3VL3522-3KN30-□□□□	1	1 unit	1CC
3VL3525-2KN30-□□□□	1	1 unit	1CC	3VL3525-3KN30-□□□□	1	1 unit	1CC
3VL4125-2KN30-□□□□	1	1 unit	1CC	3VL4125-3KN30-□□□□	1	1 unit	1CC
3VL4130-2KN30-□□□□	1	1 unit	1CC	3VL4130-3KN30-□□□□	1	1 unit	1CC
3VL4135-2KN30-□□□□	1	1 unit	1CC	3VL4135-3KN30-□□□□	1	1 unit	1CC
3VL4140-2KN30-□□□□	1	1 unit	1CC	3VL4140-3KN30-□□□□	1	1 unit	1CC
3VL4840-2KN30-□□□□	1	1 unit	1CC	3VL4840-3KN30-□□□□	1	1 unit	1CC
3VL4850-2KN30-□□□□	1	1 unit	1CC	3VL4850-3KN30-□□□□	1	1 unit	1CC
3VL4860-2KN30-□□□□	1	1 unit	1CC	3VL4860-3KN30-□□□□	1	1 unit	1CC
3VL6160-2KN30-□□□□	1	1 unit	1CC	3VL6160-3KN30-□□□□	1	1 unit	1CC
3VL6170-2KN30-□□□□	1	1 unit	1CC	3VL6170-3KN30-□□□□	1	1 unit	1CC
3VL6180-2KN30-□□□□	1	1 unit	1CC	3VL6180-3KN30-□□□□	1	1 unit	1CC
3VL7180-2KN30-□□□□	1	1 unit	1CC	3VL7180-3KN30-□□□□	1	1 unit	1CC
3VL7190-2KN30-□□□□	1	1 unit	1CC	3VL7190-3KN30-□□□□	1	1 unit	1CC
3VL7110-2KN30-□□□□	1	1 unit	1CC	3VL7110-3KN30-□□□□	1	1 unit	1CC
3VL7112-2KN30-□□□□	1	1 unit	1CC	3VL7112-3KN30-□□□□	1	1 unit	1CC
3VL8112-2KN30-□□□□	1	1 unit	1CC	3VL8112-3KN30-□□□□	1	1 unit	1CC
3VL8114-2KN30-□□□□	1	1 unit	1CC	3VL8114-3KN30-□□□□	1	1 unit	1CC
3VL8116-2KN30-□□□□	1	1 unit	1CC	3VL8116-3KN30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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Type	Rated current I_n	Operating current of the instantaneous short circuit release "I" I_f	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				Article No. supplement required, see page 2/250				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), magnetic and Electronic Trip Units



NSE0_00707

Molded case circuit breakers for starter combination, I function (motor circuit-protectors; UL file: E10848, CCN¹⁾: DKPUZ²⁾

Without overcurrent release, with adjustable short-circuit release

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.

VL150 UL, DG frame	150	450 ... 900	--					
	150	750 ... 1500	--					
	150	1250 ... 2500	--					
VL250 UL, FG frame	250	600 ... 1200	--					
	250	1000 ... 2000	--					
	250	1750 ... 3500	--					
VL400 UL, JG frame	400	1250 ... 2500	--					
	400 ³⁾	2000 ... 4000	--					
VL400X UL, LG frame	600	2000 ... 4000	--					
	600 ³⁾	2750 ... 5500	--					
VL800 UL, MG frame	800	3250 ... 6500	--					
VL1200 UL, NG frame	1200	7000 ... 12000	--					



NSE0_00708

Non-automatic molded case circuit breakers (molded case switches; UL file: E68312, CCN¹⁾: WJAZ)

Without overcurrent release, with fixed short-circuit release (for intrinsic protection only)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.

VL150X UL, CG frame	100	1800		3VL1110-1KE30-□□□□		1	1 unit	1CC
	150	1800		3VL1115-1KE30-□□□□		1	1 unit	1CC
VL150 UL, DG frame	150	2500	--					
VL250 UL, FG frame	250	3500	--					
VL400 UL, JG frame	400	4400	--					
VL400X UL, LG frame	600	5500	--					
VL800 UL, MG frame	800	6500	--					
VL1200 UL, NG frame	1200	12000	--					
VL1600 UL, PG frame ⁴⁾	1600	14000	--					

1) UL Category Code Number.

2) UL-recognized.

3) Motor current according to NEC 430-110.

4) Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V (H)					SD	Very high breaking capacity L, up to 100 kA at 480 V (L)				
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					

3VL2515-2KJ30-□□□□	1	1 unit	1CC	--	
3VL2515-2KK30-□□□□	1	1 unit	1CC	--	
3VL2515-2KL30-□□□□	1	1 unit	1CC	--	
3VL3525-2KJ30-□□□□	1	1 unit	1CC	--	
3VL3525-2KK30-□□□□	1	1 unit	1CC	--	
3VL3525-2KL30-□□□□	1	1 unit	1CC	--	
3VL4140-2KJ30-□□□□	1	1 unit	1CC	--	
3VL4140-2KK30-□□□□	1	1 unit	1CC	--	
3VL4860-2KJ30-□□□□	1	1 unit	1CC	--	
3VL4860-2KK30-□□□□	1	1 unit	1CC	--	
3VL6180-2KK30-□□□□	1	1 unit	1CC	--	
3VL7112-2KK30-□□□□	1	1 unit	1CC	--	

3VL1110-2KE30-□□□□	1	1 unit	1CC	--			
3VL1115-2KE30-□□□□	1	1 unit	1CC	--			
3VL2515-2KE30-□□□□	1	1 unit	1CC	3VL2515-3KE30-□□□□	1	1 unit	1CC
3VL3525-2KE30-□□□□	1	1 unit	1CC	3VL3525-3KE30-□□□□	1	1 unit	1CC
3VL4140-2KE30-□□□□	1	1 unit	1CC	3VL4140-3KE30-□□□□	1	1 unit	1CC
3VL4860-2KE30-□□□□	1	1 unit	1CC	3VL4860-3KE30-□□□□	1	1 unit	1CC
3VL6180-2KE30-□□□□	1	1 unit	1CC	3VL6180-3KE30-□□□□	1	1 unit	1CC
3VL7112-2KE30-□□□□	1	1 unit	1CC	3VL7112-3KE30-□□□□	1	1 unit	1CC
3VL8116-2KE30-□□□□	1	1 unit	1CC	3VL8116-3KE30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

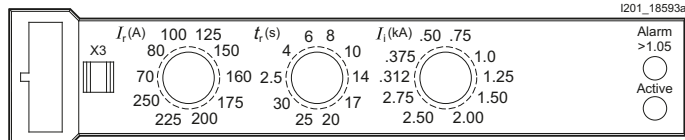
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	s	A	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹⁾: DIVQ)



Line protection

With Electronic Trip Units ETU (model 555)

LI function

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.

VL150 UL, DG frame	60	30 ... 60	2.5 ... 30	75 ... 660 (11 x I_n)	3VL2506-1PB30-□□□□	1	1 unit	1CC
	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x I_n)	3VL2510-1PB30-□□□□	1	1 unit	1CC
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x I_n)	3VL2515-1PB30-□□□□	1	1 unit	1CC
VL250 UL, FG frame	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x I_n)	3VL3510-1PB30-□□□□	1	1 unit	1CC
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x I_n)	3VL3515-1PB30-□□□□	1	1 unit	1CC
	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x I_n)	3VL3525-1PB30-□□□□	1	1 unit	1CC
VL400 UL, JG frame	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x I_n)	3VL4125-1PB30-□□□□	1	1 unit	1CC
	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x I_n)	3VL4140-1PB30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x I_n)	3VL4840-1PB30-□□□□	1	1 unit	1CC
	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x I_n)	3VL4860-1PB30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x I_n)	3VL6160-1PB30-□□□□	1	1 unit	1CC
	800	300 ... 800	2.5 ... 30	1000 ... 6000 (7.5 x I_n)	3VL6180-1PB30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	800	300 ... 800	2.5 ... 30	1000 ... 8800 (11 x I_n)	3VL7180-1PB30-□□□□	1	1 unit	1CC
	1000	400 ... 1000	2.5 ... 30	1250 ... 11000 (11 x I_n)	3VL7110-1PB30-□□□□	1	1 unit	1CC
	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x I_n)	3VL7112-1PB30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x I_n)	3VL8112-1PB30-□□□□	1	1 unit	1CC
	1600	700 ... 1600	2.5 ... 30	2000 ... 9600 (6 x I_n)	3VL8116-1PB30-□□□□	1	1 unit	1CC

L = overload

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG

3VL2506-2PB30-□□□□	1	1 unit	1CC	3VL2506-3PB30-□□□□	1	1 unit	1CC
3VL2510-2PB30-□□□□	1	1 unit	1CC	3VL2510-3PB30-□□□□	1	1 unit	1CC
3VL2515-2PB30-□□□□	1	1 unit	1CC	3VL2515-3PB30-□□□□	1	1 unit	1CC
3VL3510-2PB30-□□□□	1	1 unit	1CC	3VL3510-3PB30-□□□□	1	1 unit	1CC
3VL3515-2PB30-□□□□	1	1 unit	1CC	3VL3515-3PB30-□□□□	1	1 unit	1CC
3VL3525-2PB30-□□□□	1	1 unit	1CC	3VL3525-3PB30-□□□□	1	1 unit	1CC
3VL4125-2PB30-□□□□	1	1 unit	1CC	3VL4125-3PB30-□□□□	1	1 unit	1CC
3VL4140-2PB30-□□□□	1	1 unit	1CC	3VL4140-3PB30-□□□□	1	1 unit	1CC
3VL4840-2PB30-□□□□	1	1 unit	1CC	3VL4840-3PB30-□□□□	1	1 unit	1CC
3VL4860-2PB30-□□□□	1	1 unit	1CC	3VL4860-3PB30-□□□□	1	1 unit	1CC
3VL6160-2PB30-□□□□	1	1 unit	1CC	3VL6160-3PB30-□□□□	1	1 unit	1CC
3VL6180-2PB30-□□□□	1	1 unit	1CC	3VL6180-3PB30-□□□□	1	1 unit	1CC
3VL7180-2PB30-□□□□	1	1 unit	1CC	3VL7180-3PB30-□□□□	1	1 unit	1CC
3VL7110-2PB30-□□□□	1	1 unit	1CC	3VL7110-3PB30-□□□□	1	1 unit	1CC
3VL7112-2PB30-□□□□	1	1 unit	1CC	3VL7112-3PB30-□□□□	1	1 unit	1CC
3VL8112-2PB30-□□□□	1	1 unit	1CC	3VL8112-3PB30-□□□□	1	1 unit	1CC
3VL8116-2PB30-□□□□	1	1 unit	1CC	3VL8116-3PB30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

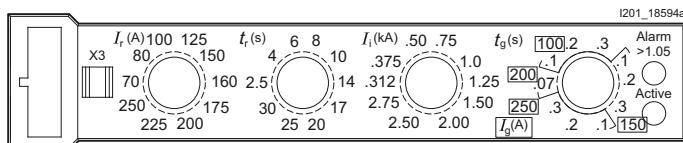
2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Standard setting of I_g/A and t_g/s	t_g/s adjustable to 0.1, 0.2 and 0.3 s for following I_g/A	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	A			d	Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/250				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹⁾: DIVQ)



NSE0_00693



i201_18594a

Line protection

With Electronic Trip Unit ETU (model 555)

LIG function

for 4-wire three-phase systems (vectorial summation current formation)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.

Current transformers must be ordered under "Accessories" page 2/284.

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	2.5 ... 30 2.5 ... 30 2.5 ... 30	75 ... 125 100 ... 150 125 ... 175	660 (11 x I_n) 1100 (11 x I_n) 1650 (11 x I_n)	48/0.07 80/0.07 120/0.07	24/36/60 40/60/100 60/90/150	3VL2506-1PD30-□□□□ 3VL2510-1PD30-□□□□ 3VL2515-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	2.5 ... 30 2.5 ... 30 2.5 ... 30	125 ... 160 175 ... 225 250 ... 300	1100 (11 x I_n) 1650 (11 x I_n) 2750 (11 x I_n)	80/0.07 120/0.07 200/0.07	40/60/100 60/90/150 100/150/250	3VL3510-1PD30-□□□□ 3VL3515-1PD30-□□□□ 3VL3525-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	2.5 ... 30 2.5 ... 30	312 ... 500	2750 (11 x I_n) 4400 (11 x I_n)	200/0.07 320/0.11	100/150/250 160/240/400	3VL4125-1PD30-□□□□ 3VL4140-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	2.5 ... 30 2.5 ... 30	500 ... 750	4400 (11 x I_n) 6000 (10 x I_n)	320/0.11 360/0.18	160/240/400 240/360/600	3VL4840-1PD30-□□□□ 3VL4860-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	2.5 ... 30 2.5 ... 30	750 ... 1000	6000 (10 x I_n) 6000 (7.5 x I_n)	360/0.18 480/0.25	240/360/600 320/480/800	3VL6160-1PD30-□□□□ 3VL6180-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	2.5 ... 30 2.5 ... 30 2.5 ... 30	1000 ... 1250 1250 ... 1500	8800 (11 x I_n) 11000 (11 x I_n) 12000 (10 x I_n)	480/0.25 600/0.32 720/0.32	320/480/800 400/600/1000 480/720/1200	3VL7180-1PD30-□□□□ 3VL7110-1PD30-□□□□ 3VL7112-1PD30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ²⁾	1200 1600	400 ... 1200 700 ... 1600	2.5 ... 30 2.5 ... 30	1500 ... 2000	12000 (10 x I_n) 9600 (6 x I_n)	720/0.32 960/0.4	480/720/1200 640/960/1200	3VL8112-1PD30-□□□□ 3VL8116-1PD30-□□□□	1 1	1 unit 1 unit	1CC 1CC

L = overload

I = short-circuit protection, instantaneous

G = ground-fault protection

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V (H)					SD	Very high breaking capacity L, up to 100 kA at 480 V (L)				
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					

3VL2506-2PD30-□□□□	1	1 unit	1CC			3VL2506-3PD30-□□□□	1	1 unit	1CC		
3VL2510-2PD30-□□□□	1	1 unit	1CC			3VL2510-3PD30-□□□□	1	1 unit	1CC		
3VL2515-2PD30-□□□□	1	1 unit	1CC			3VL2515-3PD30-□□□□	1	1 unit	1CC		
3VL3510-2PD30-□□□□	1	1 unit	1CC			3VL3510-3PD30-□□□□	1	1 unit	1CC		
3VL3515-2PD30-□□□□	1	1 unit	1CC			3VL3515-3PD30-□□□□	1	1 unit	1CC		
3VL3525-2PD30-□□□□	1	1 unit	1CC			3VL3525-3PD30-□□□□	1	1 unit	1CC		
3VL4125-2PD30-□□□□	1	1 unit	1CC			3VL4125-3PD30-□□□□	1	1 unit	1CC		
3VL4140-2PD30-□□□□	1	1 unit	1CC			3VL4140-3PD30-□□□□	1	1 unit	1CC		
3VL4840-2PD30-□□□□	1	1 unit	1CC			3VL4840-3PD30-□□□□	1	1 unit	1CC		
3VL4860-2PD30-□□□□	1	1 unit	1CC			3VL4860-3PD30-□□□□	1	1 unit	1CC		
3VL6160-2PD30-□□□□	1	1 unit	1CC			3VL6160-3PD30-□□□□	1	1 unit	1CC		
3VL6180-2PD30-□□□□	1	1 unit	1CC			3VL6180-3PD30-□□□□	1	1 unit	1CC		
3VL7180-2PD30-□□□□	1	1 unit	1CC			3VL7180-3PD30-□□□□	1	1 unit	1CC		
3VL7110-2PD30-□□□□	1	1 unit	1CC			3VL7110-3PD30-□□□□	1	1 unit	1CC		
3VL7112-2PD30-□□□□	1	1 unit	1CC			3VL7112-3PD30-□□□□	1	1 unit	1CC		
3VL8112-2PD30-□□□□	1	1 unit	1CC			3VL8112-3PD30-□□□□	1	1 unit	1CC		
3VL8116-2PD30-□□□□	1	1 unit	1CC			3VL8116-3PD30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

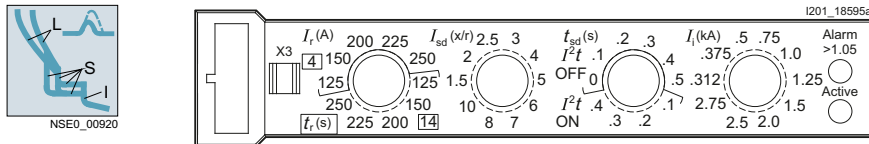
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Operating current of the short-time delayed short-circuit protection "S" I_{sd}	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	A	A	d	Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/250				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹⁾: DIVQ)



Line and generator protection

With Electronic Trip Unit ETU (model 555)

LSI function ($t_{sd} = 0$ to 0.5 s)

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	4/14 4/14 4/14	75 ... 660 (11 x I_n) 125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL2506-1PE30-□□□□ 3VL2510-1PE30-□□□□ 3VL2515-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 125 ... 250	4/14 4/14 4/14	125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n) 312 ... 2750 (11 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL3510-1PE30-□□□□ 3VL3515-1PE30-□□□□ 3VL3525-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	125 ... 250 200 ... 400	4/14 10/20	312 ... 2750 (11 x I_n) 500 ... 4400 (11 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL4125-1PE30-□□□□ 3VL4140-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	200 ... 400 350 ... 600	10/20 10/20	500 ... 4400 (11 x I_n) 750 ... 6000 (10 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL4840-1PE30-□□□□ 3VL4860-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	350 ... 600 400 ... 800	10/20 10/20	750 ... 6000 (10 x I_n) 1000 ... 6000 (7.5 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL6160-1PE30-□□□□ 3VL6180-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	400 ... 800 600 ... 1000 700 ... 1200	10/20 10/20 10/20	1000 ... 8800 (11 x I_n) 1250 ... 11000 (11 x I_n) 1500 ... 12000 (10 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL7180-1PE30-□□□□ 3VL7110-1PE30-□□□□ 3VL7112-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ²⁾	1200 1600	700 ... 1200 1000 ... 1600	10/20 10/20	1500 ... 12000 (10 x I_n) 2000 ... 9600 (6 x I_n)	1.5 ... 10 x I_r 1.5 ... 10 x I_r	3VL8112-1PE30-□□□□ 3VL8116-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V (H)					SD	Very high breaking capacity L, up to 100 kA at 480 V (L)				
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					

3VL2506-2PE30-□□□□	1	1 unit	1CC			3VL2506-3PE30-□□□□	1	1 unit	1CC		
3VL2510-2PE30-□□□□	1	1 unit	1CC			3VL2510-3PE30-□□□□	1	1 unit	1CC		
3VL2515-2PE30-□□□□	1	1 unit	1CC			3VL2515-3PE30-□□□□	1	1 unit	1CC		
3VL3510-2PE30-□□□□	1	1 unit	1CC			3VL3510-3PE30-□□□□	1	1 unit	1CC		
3VL3515-2PE30-□□□□	1	1 unit	1CC			3VL3515-3PE30-□□□□	1	1 unit	1CC		
3VL3525-2PE30-□□□□	1	1 unit	1CC			3VL3525-3PE30-□□□□	1	1 unit	1CC		
3VL4125-2PE30-□□□□	1	1 unit	1CC			3VL4125-3PE30-□□□□	1	1 unit	1CC		
3VL4140-2PE30-□□□□	1	1 unit	1CC			3VL4140-3PE30-□□□□	1	1 unit	1CC		
3VL4840-2PE30-□□□□	1	1 unit	1CC			3VL4840-3PE30-□□□□	1	1 unit	1CC		
3VL4860-2PE30-□□□□	1	1 unit	1CC			3VL4860-3PE30-□□□□	1	1 unit	1CC		
3VL6160-2PE30-□□□□	1	1 unit	1CC			3VL6160-3PE30-□□□□	1	1 unit	1CC		
3VL6180-2PE30-□□□□	1	1 unit	1CC			3VL6180-3PE30-□□□□	1	1 unit	1CC		
3VL7180-2PE30-□□□□	1	1 unit	1CC			3VL7180-3PE30-□□□□	1	1 unit	1CC		
3VL7110-2PE30-□□□□	1	1 unit	1CC			3VL7110-3PE30-□□□□	1	1 unit	1CC		
3VL7112-2PE30-□□□□	1	1 unit	1CC			3VL7112-3PE30-□□□□	1	1 unit	1CC		
3VL8112-2PE30-□□□□	1	1 unit	1CC			3VL8112-3PE30-□□□□	1	1 unit	1CC		
3VL8116-2PE30-□□□□	1	1 unit	1CC			3VL8116-3PE30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

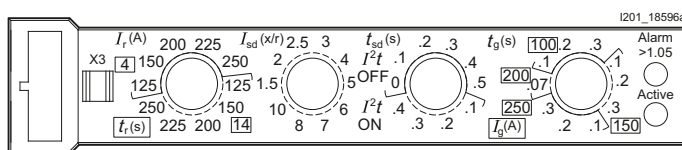
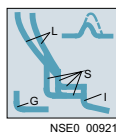
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Operating current of the short-time delayed short-circuit protection "S" I_{sd}	Standard setting of I_g/A and t_g/s	t_g/s adjustable to 0.1, 0.2 and 0.3 s for following I_g/A	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	A	A			d	Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/250				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹⁾: DIVQ)



Line and generator protection

With Electronic Trip Unit ETU (model 555)
LSIG function ($t_{sd} = 0$ to 0.5 s)
for 4-wire three-phase systems (vectorial summation current formation)
Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.
Current transformers must be ordered under "Accessories" page 2/284.

VL150 UL, DG frame	60	30 ... 60	4/14	300/660 (5/11 × I_n)	1.5 ... 10 × I_r	48/0.07	24/36/60	3VL2506-1PH30-□□□□	1	1 unit	1CC
	100	40 ... 100	4/14	500/1100 (5/11 × I_n)	1.5 ... 10 × I_r	80/0.07	40/60/100	3VL2510-1PH30-□□□□	1	1 unit	1CC
	150	60 ... 150	4/14	750/1650 (5/11 × I_n)	1.5 ... 10 × I_r	120/0.07	60/90/150	3VL2515-1PH30-□□□□	1	1 unit	1CC
VL250 UL, FG frame	100	40 ... 100	4/14	500/1100 (5/11 × I_n)	1.5 ... 10 × I_r	80/0.07	40/60/100	3VL3510-1PH30-□□□□	1	1 unit	1CC
	150	60 ... 150	4/14	750/1650 (5/11 × I_n)	1.5 ... 10 × I_r	120/0.07	60/90/150	3VL3515-1PH30-□□□□	1	1 unit	1CC
	250	125 ... 250	4/14	1250/2750 (5/11 × I_n)	1.5 ... 10 × I_r	200/0.07	100/150/250	3VL3525-1PH30-□□□□	1	1 unit	1CC
VL400 UL, JG frame	250	125 ... 250	4/14	1250/2750 (5/11 × I_n)	1.5 ... 10 × I_r	200/0.07	100/150/250	3VL4125-1PH30-□□□□	1	1 unit	1CC
	400	200 ... 400	10/20	2000/4400 (5/11 × I_n)	1.5 ... 10 × I_r	320/0.11	160/240/400	3VL4140-1PH30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	400	200 ... 400	10/20	2000/4400 (5/11 × I_n)	1.5 ... 10 × I_r	320/0.11	160/240/400	3VL4840-1PH30-□□□□	1	1 unit	1CC
	600	350 ... 600	10/20	3000/6000 (5/10 × I_n)	1.5 ... 10 × I_r	360/0.18	240/360/600	3VL4860-1PH30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	600	350 ... 600	10/20	3000/6000 (5/10 × I_n)	1.5 ... 10 × I_r	360/0.18	240/360/600	3VL6160-1PH30-□□□□	1	1 unit	1CC
	800	400 ... 800	10/20	4000/8800 (5/7.5 × I_n)	1.5 ... 10 × I_r	480/0.25	320/480/800	3VL6180-1PH30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	800	400 ... 800	10/20	4000/8800 (5/11 × I_n)	1.5 ... 10 × I_r	480/0.25	320/480/800	3VL7180-1PH30-□□□□	1	1 unit	1CC
	1000	600 ... 1000	10/20	5000/11000 (5/11 × I_n)	1.5 ... 10 × I_r	600/0.32	400/600/1000	3VL7110-1PH30-□□□□	1	1 unit	1CC
	1200	700 ... 1200	10/20	6000/12000 (5/10 × I_n)	1.5 ... 10 × I_r	720/0.32	480/720/1200	3VL7112-1PH30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1200	700 ... 1200	10/20	6000/12000 (5/10 × I_n)	1.5 ... 10 × I_r	720/0.32	480/720/1200	3VL8112-1PH30-□□□□	1	1 unit	1CC
	1600	1000...1600	10/20	8000/9600 (5/6 × I_n)	1.5 ... 10 × I_r	960/0.4	640/960/1200	3VL8116-1PH30-□□□□	1	1 unit	1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

G = ground-fault protection

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

SD	High breaking capacity H, up to 65 kA at 480 V (H)					SD	Very high breaking capacity L, up to 100 kA at 480 V (L)				
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					

3VL2506-2PH30-□□□□	1	1 unit	1CC			3VL2506-3PH30-□□□□	1	1 unit	1CC		
3VL2510-2PH30-□□□□	1	1 unit	1CC			3VL2510-3PH30-□□□□	1	1 unit	1CC		
3VL2515-2PH30-□□□□	1	1 unit	1CC			3VL2515-3PH30-□□□□	1	1 unit	1CC		
3VL3510-2PH30-□□□□	1	1 unit	1CC			3VL3510-3PH30-□□□□	1	1 unit	1CC		
3VL3515-2PH30-□□□□	1	1 unit	1CC			3VL3515-3PH30-□□□□	1	1 unit	1CC		
3VL3525-2PH30-□□□□	1	1 unit	1CC			3VL3525-3PH30-□□□□	1	1 unit	1CC		
3VL4125-2PH30-□□□□	1	1 unit	1CC			3VL4125-3PH30-□□□□	1	1 unit	1CC		
3VL4140-2PH30-□□□□	1	1 unit	1CC			3VL4140-3PH30-□□□□	1	1 unit	1CC		
3VL4840-2PH30-□□□□	1	1 unit	1CC			3VL4840-3PH30-□□□□	1	1 unit	1CC		
3VL4860-2PH30-□□□□	1	1 unit	1CC			3VL4860-3PH30-□□□□	1	1 unit	1CC		
3VL6160-2PH30-□□□□	1	1 unit	1CC			3VL6160-3PH30-□□□□	1	1 unit	1CC		
3VL6180-2PH30-□□□□	1	1 unit	1CC			3VL6180-3PH30-□□□□	1	1 unit	1CC		
3VL7180-2PH30-□□□□	1	1 unit	1CC			3VL7180-3PH30-□□□□	1	1 unit	1CC		
3VL7110-2PH30-□□□□	1	1 unit	1CC			3VL7110-3PH30-□□□□	1	1 unit	1CC		
3VL7112-2PH30-□□□□	1	1 unit	1CC			3VL7112-3PH30-□□□□	1	1 unit	1CC		
3VL8112-2PH30-□□□□	1	1 unit	1CC			3VL8112-3PH30-□□□□	1	1 unit	1CC		
3VL8116-2PH30-□□□□	1	1 unit	1CC			3VL8116-3PH30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

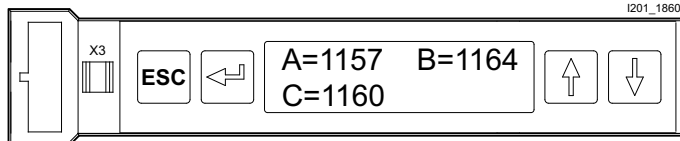
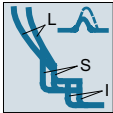
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".				
	A	A	A	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), up to 1600 A
Electronic Trip Units (UL file: E10848, CCN¹⁾: DIVQ



Molded case circuit breakers with Electronic Trip Units with LCD, line protection with L/LS/LSI function

- Connection type:
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.
- $t_{sd} = 0$ to 0.5 s
- t_r/s : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- I_{sd}/A : 1.25 to $10 \times I_r^{(2)}$
- Pre-alarm % of I_r : 80 to 100

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 ($11 \times I_n$) 125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$)	3VL2506-1VH30-□□□□ 3VL2510-1VH30-□□□□ 3VL2515-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$) 312 ... 2750 ($11 \times I_n$)	3VL3510-1VH30-□□□□ 3VL3515-1VH30-□□□□ 3VL3525-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 ($11 \times I_n$) 500 ... 4400 ($11 \times I_n$)	3VL4125-1VH30-□□□□ 3VL4140-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 ($11 \times I_n$) 750 ... 6000 ($10 \times I_n$)	3VL4840-1VH30-□□□□ 3VL4860-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 ($10 \times I_n$) 1000 ... 6000 ($7.5 \times I_n$)	3VL6160-1VH30-□□□□ 3VL6180-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 ($11 \times I_n$) 1250 ... 11000 ($11 \times I_n$) 1500 ... 12000 ($10 \times I_n$)	3VL7180-1VH30-□□□□ 3VL7110-1VH30-□□□□ 3VL7112-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ³⁾	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 ($10 \times I_n$) 2000 ... 9600 ($6 \times I_n$)	3VL8112-1VH30-□□□□ 3VL8116-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Only for sizes for which I_i (max) = $11 \times I_n$. Here the factor is 11.
Otherwise the following applies:
 I_{sd} (max) = (factor-1) $\times I_r$ (max). The factor is the value in brackets in the column I_i .

³⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

SD	High breaking capacity H, up to 65 kA at 480 V (H)	SD	Very high breaking capacity L, up to 100 kA at 480 V (L)						
d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250						
	Price per PU	PU (UNIT, SET, M)	PS	PG		Price per PU	PU (UNIT, SET, M)	PS	PG

3VL2506-2VH30-□□□□	1	1 unit	1CC		3VL2506-3VH30-□□□□	1	1 unit	1CC	
3VL2510-2VH30-□□□□	1	1 unit	1CC		3VL2510-3VH30-□□□□	1	1 unit	1CC	
3VL2515-2VH30-□□□□	1	1 unit	1CC		3VL2515-3VH30-□□□□	1	1 unit	1CC	
3VL3510-2VH30-□□□□	1	1 unit	1CC		3VL3510-3VH30-□□□□	1	1 unit	1CC	
3VL3515-2VH30-□□□□	1	1 unit	1CC		3VL3515-3VH30-□□□□	1	1 unit	1CC	
3VL3525-2VH30-□□□□	1	1 unit	1CC		3VL3525-3VH30-□□□□	1	1 unit	1CC	
3VL4125-2VH30-□□□□	1	1 unit	1CC		3VL4125-3VH30-□□□□	1	1 unit	1CC	
3VL4140-2VH30-□□□□	1	1 unit	1CC		3VL4140-3VH30-□□□□	1	1 unit	1CC	
3VL4840-2VH30-□□□□	1	1 unit	1CC		3VL4840-3VH30-□□□□	1	1 unit	1CC	
3VL4860-2VH30-□□□□	1	1 unit	1CC		3VL4860-3VH30-□□□□	1	1 unit	1CC	
3VL6160-2VH30-□□□□	1	1 unit	1CC		3VL6160-3VH30-□□□□	1	1 unit	1CC	
3VL6180-2VH30-□□□□	1	1 unit	1CC		3VL6180-3VH30-□□□□	1	1 unit	1CC	
3VL7180-2VH30-□□□□	1	1 unit	1CC		3VL7180-3VH30-□□□□	1	1 unit	1CC	
3VL7110-2VH30-□□□□	1	1 unit	1CC		3VL7110-3VH30-□□□□	1	1 unit	1CC	
3VL7112-2VH30-□□□□	1	1 unit	1CC		3VL7112-3VH30-□□□□	1	1 unit	1CC	
3VL8112-2VH30-□□□□	1	1 unit	1CC		3VL8112-3VH30-□□□□	1	1 unit	1CC	
3VL8116-2VH30-□□□□	1	1 unit	1CC		3VL8116-3VH30-□□□□	1	1 unit	1CC	

Molded Case Circuit Breakers

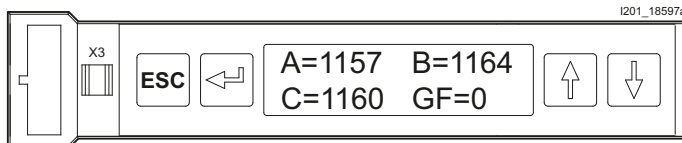
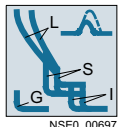
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	I_g in % of I_n	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	A		d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), up to 1600 A
Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with LSIG function or LSIG (alarm) function

- Connection type:
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/265 to 2/268 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/269 to 2/276.
- t_f/s : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- I_{sd}/A : 1.25 to $10 \times I_r^{(2)}$
- Pre-alarm % of I_r : 80 to 100
- t_g/s : 0.1; 0.2; 0.3; 0.4; 0.5

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 ($11 \times I_n$) 125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$)	40 ... 100 40 ... 100 40 ... 100	3VL2506-1□□30-□□□□ 3VL2510-1□□30-□□□□ 3VL2515-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$) 312 ... 2750 ($11 \times I_n$)	40 ... 100 40 ... 100 40 ... 100	3VL3510-1□□30-□□□□ 3VL3515-1□□30-□□□□ 3VL3525-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 ($11 \times I_n$) 500 ... 4400 ($11 \times I_n$)	40 ... 100 40 ... 100	3VL4125-1□□30-□□□□ 3VL4140-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 ($11 \times I_n$) 750 ... 6000 ($10 \times I_n$)	40 ... 100 40 ... 100	3VL4840-1□□30-□□□□ 3VL4860-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 ($10 \times I_n$) 1000 ... 6000 ($7.5 \times I_n$)	40 ... 100 40 ... 100	3VL6160-1□□30-□□□□ 3VL6180-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 ($11 \times I_n$) 1250 ... 11000 ($11 \times I_n$) 1500 ... 12000 ($10 \times I_n$)	40 ... 100 40 ... 100 40 ... 100	3VL7180-1□□30-□□□□ 3VL7110-1□□30-□□□□ 3VL7112-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ³⁾	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 ($10 \times I_n$) 2000 ... 9600 ($6 \times I_n$)	40 ... 100 40 ... 75	3VL8112-1□□30-□□□□ 3VL8116-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC

Electronic Trip Units with LCD, 3-pole version

Line protection with LSIG function

For 4-wire three-phase systems
(vectorial summation current formation)
 $t_{sd} = 0$ to 0.5 s, $t_g = 0$ to 0.5 s

VM

Line protection with LSIG (alarm) function

For 4-wire three-phase systems
(vectorial summation current formation)
 $t_{sd} = 0$ to 0.5 s, $t_g = 0$ to 0.5 s

VJ

- L = overload
S = short-circuit protection, short-time delayed
I = short-circuit protection, instantaneous
G = ground-fault protection

- 1) UL Category Code Number.
- 2) Only for sizes for which I_i (max) = $11 \times I_n$. Here the factor is 11. Otherwise the following applies: I_{sd} (max) = (factor-1) $\times I_r$ (max). The factor is the value in brackets in the column I_i .
- 3) Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base, (see page 2/276).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/250	Price per PU	PU (UNIT, SET, M)	PS	PG
d					

3VL2506-2□□30-□□□□	1	1 unit	1CC	3VL2506-3□□30-□□□□	1	1 unit	1CC
3VL2510-2□□30-□□□□	1	1 unit	1CC	3VL2510-3□□30-□□□□	1	1 unit	1CC
3VL2515-2□□30-□□□□	1	1 unit	1CC	3VL2515-3□□30-□□□□	1	1 unit	1CC
3VL3510-2□□30-□□□□	1	1 unit	1CC	3VL3510-3□□30-□□□□	1	1 unit	1CC
3VL3515-2□□30-□□□□	1	1 unit	1CC	3VL3515-3□□30-□□□□	1	1 unit	1CC
3VL3525-2□□30-□□□□	1	1 unit	1CC	3VL3525-3□□30-□□□□	1	1 unit	1CC
3VL4125-2□□30-□□□□	1	1 unit	1CC	3VL4125-3□□30-□□□□	1	1 unit	1CC
3VL4140-2□□30-□□□□	1	1 unit	1CC	3VL4140-3□□30-□□□□	1	1 unit	1CC
3VL4840-2□□30-□□□□	1	1 unit	1CC	3VL4840-3□□30-□□□□	1	1 unit	1CC
3VL4860-2□□30-□□□□	1	1 unit	1CC	3VL4860-3□□30-□□□□	1	1 unit	1CC
3VL6160-2□□30-□□□□	1	1 unit	1CC	3VL6160-3□□30-□□□□	1	1 unit	1CC
3VL6180-2□□30-□□□□	1	1 unit	1CC	3VL6180-3□□30-□□□□	1	1 unit	1CC
3VL7180-2□□30-□□□□	1	1 unit	1CC	3VL7180-3□□30-□□□□	1	1 unit	1CC
3VL7110-2□□30-□□□□	1	1 unit	1CC	3VL7110-3□□30-□□□□	1	1 unit	1CC
3VL7112-2□□30-□□□□	1	1 unit	1CC	3VL7112-3□□30-□□□□	1	1 unit	1CC
3VL8112-2□□30-□□□□	1	1 unit	1CC	3VL8112-3□□30-□□□□	1	1 unit	1CC
3VL8116-2□□30-□□□□	1	1 unit	1CC	3VL8116-3□□30-□□□□	1	1 unit	1CC



Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Options

Selection and ordering data

1st Article No. supplement: Undervoltage and shunt releases, wiring directly to accessories

Rated control supply voltage U_s /frequency	Article No. supplement	Molded case circuit breakers	
50/60 Hz AC DC	3VL.....-.....- □ □ ..	Type VL150X UL (CG frame) to VL400X UL (LG-Frame)¹⁾	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
Without auxiliary releases	0 A	None	None
With undervoltage release Right pole only			
V AC	V DC		
--	12	2 N ✓ ¹⁾	✓
--	24	2 P ✓ ¹⁾	✓
--	48	2 U ✓ ¹⁾	✓
--	60	2 V ✓ ¹⁾	✓
--	110-127	2 R ✓ ¹⁾	✓
--	220-250	2 S ✓ ¹⁾	✓
24	--	2 D ²⁾ ✓ ¹⁾	--
110-127	--	2 G ✓ ¹⁾	✓
220-250	--	2 H ✓ ¹⁾	✓
208	--	2 M ✓ ¹⁾	✓
277	--	2 Q ✓ ¹⁾	✓
380-415	--	2 J ✓ ¹⁾	✓
440-480	--	2 K ✓ ¹⁾	✓
500-525	--	2 L ²⁾ ✓ ¹⁾	--
With shunt release Right pole only			
V AC	V DC		
--	24	8 C ✓ ¹⁾	✓
--	48-60	8 J ✓ ¹⁾	✓
--	110-127	8 K ✓ ¹⁾	✓
--	220-250	8 Q ✓ ¹⁾	✓
48-60	--	8 M ✓ ¹⁾	✓
110-127	--	8 R ✓ ¹⁾	✓
208-277	--	8 T ✓ ¹⁾	✓
380-600	--	8 V ✓ ¹⁾	✓

2nd Article No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, wiring directly to accessories

Equipment	Article No. supplement	Molded case circuit breakers	
HS = 1 NO or 1 NC contact block AS = 1 NO contact block	3VL.....-.....- □ □	Type VL150X UL (CG frame) to VL400X UL (LG frame)	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
Without auxiliary/alarm switches	A 0	None	None
2 HS (1 NO/1 NC) ³⁾	B 1	✓ ⁴⁾	--
4 HS (2 NO/2 NC)	C 1	--	✓
2 HS (1 NO/1 NC) + 1 AS (1 NO)	D 1	✓ ⁴⁾	--
2 HS (1 NO/1 NC) + 1 AS (1 NO) ⁵⁾	E 1	--	✓

✓ Additional price

-- Not available

¹⁾ Only an undervoltage release or a shunt release or an auxiliary/alarm switch combination is possible for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with an Electronic Trip Unit.

²⁾ Not for VL800 UL (MG frame), VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

³⁾ Up to 3 HS are possible with a mounting adapter.

⁴⁾ Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

⁵⁾ Up to 2 HS + 2 AS are possible with a mounting adapter.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Options

When ordering, add "-Z" to the complete Article No. and add the relevant order code(s).

Article No. with "-Z"
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
3VL - - -Z
and additional order code(s)
 + . . . + . . .

Additional price

Code for further versions -Z

For fixed-mounted molded case circuit breakers (wired in factory)					
Wiring for internal accessories (Auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) with connecting cables (3 m long) brought out at the rear	VL150X UL (CG frame) to VL1600 UL (PG frame)	L	0	2	✓
Wiring for motorized operating mechanisms (Motorized operating mechanism not included in scope of supply, for selection and ordering data see pages 2/256 to 2/264) with connecting cables (3 m long) or brought out at the top in the case of VL150X UL (CG frame) to VL400X UL (LG frame) or brought out at the right in the case of VL800 UL (MG frame) to VL1600 UL (PG frame)	VL150X UL (CG frame) to VL1600 UL (PG frame)	L	1	2	✓
Motorized operating mechanisms (24 V DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	2	4	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)				✓
	VL800 UL (MG frame)				✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)				✓
Motorized operating mechanisms (42-48 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	4	2	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)				✓
	VL800 UL (MG frame)				✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)				✓
Motorized operating mechanisms (60 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	6	0	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)				✓
	VL800 UL (MG frame)				✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)				✓
Motorized operating mechanisms (110-127 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	1	1	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)				✓
	VL800 UL (MG frame)				✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)				✓
Motorized operating mechanisms (220-250 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	2	2	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)				✓
	VL800 UL (MG frame)				✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)				✓

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Selection and ordering data

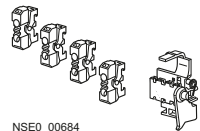
Wiring directly to accessories	SD	For VL150X UL (CG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Price per PU		

Auxiliary switches and auxiliary releases (UL file: E69455)

3-pole

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



NSE0_00684

3VL9400-2A.01

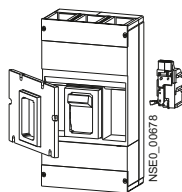
Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left ¹⁾ , right	3VL9400-2AB01	1	1 unit	1CC
4 HS (2 NO + 2 NC)	N, left, right	--			
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	left, right ²⁾ Left	3VL9400-2AD01	1	1 unit	1CC
		--			

Additional auxiliary switch/alarm switch combinations

[See page 2/254.](#)

Shunt releases

For retrofitting



NSE0_00678

3VL9400-1S.01,
3VL9400 1U.01

V AC	V DC	Mounting side			
--	24	Right pole only	3VL9400-1SC01	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9400-1SJ01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1SK01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1SQ01	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9400-1SM01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1SR01	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9400-1ST01	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9400-1SV01	1	1 unit 1CC

Undervoltage releases

For retrofitting

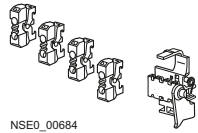
V AC	V DC	Mounting side			
--	12	Right pole only	3VL9400-1UN01	1	1 unit 1CC
--	24	Right pole only	3VL9400-1UP01	1	1 unit 1CC
--	48	Right pole only	3VL9400-1UU01	1	1 unit 1CC
--	60	Right pole only	3VL9400-1UV01	1	1 unit 1CC
24	--	Right pole only	3VL9400-1UD01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1UG01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1UR01	1	1 unit 1CC
208	--	Right pole only	3VL9400-1UM01	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9400-1UH01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1US01	1	1 unit 1CC
277	--	Right pole only	3VL9400-1UQ01	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9400-1UJ01	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9400-1UK01	1	1 unit 1CC
500 ... 525	--	Right pole only	3VL9400-1UL01	1	1 unit 1CC

¹⁾ Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid.

²⁾ In the case of VL400 UL (JG frame)/VL400X UL (LG frame): Unsuitable for mounting in the right accessory compartment. The 3VL9400-2AB01 assembly kit with auxiliary switches only is recommended.

Wiring directly to accessories	SD	For VL800 UL (MG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
	d				

Auxiliary switches and auxiliary releases (UL file: E69455)



NSE0_00684

3VL9800-2A.01

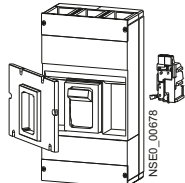
3-pole

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting

Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left, right	--			
4 HS (2 NO + 2 NC)	N, left, right	3VL9800-2AC01	1	1 unit	1CC
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	-- 3VL9800-2AE01	1	1 unit	1CC

Additional auxiliary switch/alarm switch combinations

[See page 2/254.](#)3VL9800-1S.01,
3VL9800-1U.01

Shunt releases

For retrofitting

V AC	V DC	Mounting side			
--	24	Right pole only	3VL9800-1SC01	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9800-1SJ01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1SK01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1SQ01	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9800-1SM01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1SR01	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9800-1ST01	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9800-1SV01	1	1 unit 1CC

Undervoltage releases

For retrofitting

V AC	V DC	Mounting side			
--	12	Right pole only	3VL9800-1UN01	1	1 unit 1CC
--	24	Right pole only	3VL9800-1UP01	1	1 unit 1CC
--	48	Right pole only	3VL9800-1UU01	1	1 unit 1CC
--	60	Right pole only	3VL9800-1UV01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1UG01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1UR01	1	1 unit 1CC
208	--	Right pole only	3VL9800-1UM01	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9800-1UH01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1US01	1	1 unit 1CC
277	--	Right pole only	3VL9800-1UQ01	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9800-1UJ01	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9800-1UK01	1	1 unit 1CC
500 ... 525	--	Right pole only	--		

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

For molded case circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Type		d					
3SB adapters and 3SB contact blocks							
Mounting adapters for auxiliary and alarm switch combinations (UL file: E69455)							
For installation in the left pole of the molded case circuit breaker							
VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame)	Up to 3 HS ¹⁾		3VL9400-2AH01		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ11		1	1 unit	1CC
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		3VL9816-2AL01		1	1 unit	1CC
	2 HS + 2 AS		3VL9816-2AN11		1	1 unit	1CC
For installation in the right pole of the molded case circuit breaker							
VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame) ²⁾	Up to 3 HS ¹⁾		3VL9400-2AH01		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ21		1	1 unit	1CC
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		3VL9816-2AL01		1	1 unit	1CC
	2 HS + 2 AS		--				

¹⁾ Except for installation in the left pole of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

²⁾ In the case of VL400 UL (JG frame)/VL400X UL (LG frame): 3VL9400-2AJ21 unsuitable for mounting in the right-hand accessory compartment.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

For auxiliary switches (HS) and alarm switches (AS)	SD	Molded case circuit breakers	PU (UNIT, SET, M)	PS	PG
		Type VL150X UL (CG frame) to VL1600 UL (PG frame)			
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Contact blocks for auxiliary switch and alarm switch combinations					
1 NO		3SB3400-0J	1	1 unit	41J
1 NC		3SB3400-0K	1	1 unit	41J

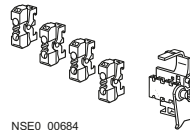
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB3400-0J
- 1 HS or 1 AS with NC contact 3SB3400-0K

Notes:

A maximum of 6 contact blocks (HS) per molded case circuit breaker (VL150X UL (CG frame) to VL400X UL (LG frame)) and a maximum of 8 contact blocks (HS) per molded case circuit breaker (VL800 UL (MG frame) to VL1600 UL (PG frame)) are possible.

Four 3SB3 auxiliary contact blocks and one mounting adapter (right), suitable for VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers.



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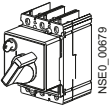
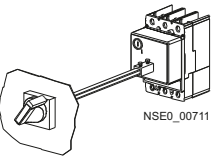
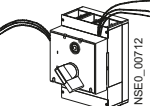
For retrofitting/equipment options, see chapter "Design", "Auxiliary releases and auxiliary switches".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG	
	d	Article No. www.siemens.com/ product?Article No.	Price per PU			
Operating mechanisms						
 <p>3VL9.00-3H.01</p>	3-pole Front-operated rotary operating mechanisms (UL file: E69455) For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u> , EMERGENCY-STOP version Red knob, yellow indicator plate For safety locks for installation by the customer, see pages 2/277 to 2/281 .					
		3VL9300-3HA01		1	1 unit	1CC
		3VL9300-3HC01		1	1 unit	1CC
 <p>3VL9.00-3H.06</p>	Door-coupling rotary operating mechanisms, complete Installation in doors and covers (UL file: E69455) NEMA 1, 12 Degree of protection IP65, including <u>black</u> knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch For safety locks for installation by the customer, see pages 2/277 to 2/281 .					
		3VL9300-3HF06		1	1 unit	1CC
		3VL9300-3HG06		1	1 unit	1CC
		8UC9400		1	1 unit	1CL
 <p>3VL9.00-3A.11</p>	Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455) Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables					
		3VL9300-3AS11		1	1 unit	1CC
		3VL9300-3AT11		1	1 unit	1CC
		3VL9300-3AU11		1	1 unit	1CC
		3VL9300-3AW11		1	1 unit	1CC
		3VL9300-3HE01		1	1 unit	1CC
		3VL9300-3HP02		1	1 unit	1CC
		3VL9300-3HP00		1	1 unit	1CC

¹⁾ IP40 with additional masking frame mounted on the door cut-out.

²⁾ In combination with 3VL1 to VL5, the interlocking module can be used with the complete door-coupling rotary operating mechanisms as follows:

	3VL1/3VL2/3VL3	3VL4/3VL4X
Door-coupling rotary operating mechanisms, complete		
• Black knob, light-gray indicator plate	3VL9300-3HF06	3VL9400-3HF06
• Red knob, yellow indicator plate	3VL9300-3HG06	3VL9400-3HG06

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No. Price per PU				d	Article No. www.siemens.com/product?Article No. Price per PU			
	3VL9400-3HA01	1	1 unit	1CC		3VL9600-3HA01	1	1 unit	1CC
	3VL9400-3HC01	1	1 unit	1CC		3VL9600-3HC01	1	1 unit	1CC
	3VL9400-3HF06	1	1 unit	1CC		3VL9600-3HF06	1	1 unit	1CC
	3VL9400-3HG06	1	1 unit	1CC		3VL9600-3HG06	1	1 unit	1CC
	8UC9400	1	1 unit	1CL		--			
	3VL9400-3AS11	1	1 unit	1CC		3VL9600-3AS11	1	1 unit	1CC
	3VL9400-3AT11	1	1 unit	1CC		3VL9600-3AT11	1	1 unit	1CC
	3VL9400-3AU11	1	1 unit	1CC		3VL9600-3AU11	1	1 unit	1CC
	3VL9400-3AW11	1	1 unit	1CC		3VL9600-3AW11	1	1 unit	1CC
	3VL9400-3HE01	1	1 unit	1CC		3VL9600-3HE01	1	1 unit	1CC
	3VL9400-3HP00	1	1 unit	1CC		3VL9600-3HP00	1	1 unit	1CC
	--					--			

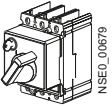
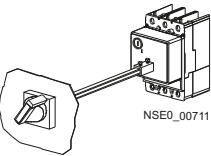
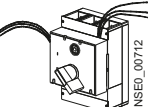
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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?ArticleNo.	Price per PU		
d					
Operating mechanisms					
3-pole					
Front-operated rotary operating mechanisms (UL file: E69455)					
For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u> .					
					
3VL9.00-3H.01		3VL9800-3HA01		1	1 unit 1CC
<u>EMERGENCY-STOP version</u>					
Red knob, yellow indicator plate					
For safety locks for installation by the customer, see pages 2/277 to 2/281.					
Door-coupling rotary operating mechanisms, complete Installation in doors and covers (UL file: E69455)					
Degree of protection IP65, including black knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker					
					
3VL9.00-3H.06		3VL9800-3HF06		1	1 unit 1CC
<u>EMERGENCY-STOP version</u>					
Red knob, yellow indicator plate, without leading auxiliary switch					
For safety locks for installation by the customer, see pages 2/277 to 2/281.					
Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)					
Standard or EMERGENCY-STOP version					
"OFF after ON"					
Leading auxiliary switches when switching on					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
"ON after OFF"					
Leading auxiliary switches when switching off					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
					
3VL9.00-3A.11		3VL9800-3AS21		1	1 unit 1CC
		3VL9800-3AT21		1	1 unit 1CC
		3VL9800-3AU11		1	1 unit 1CC
		3VL9800-3AW11		1	1 unit 1CC
Rotary operating mechanisms with shaft stub, without knob					
Without leading auxiliary switch, for auxiliary switches, see above.					
Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device					
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm					
		3VL9800-3HP00		1	1 unit 1CC

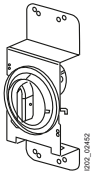
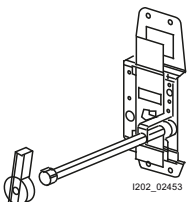
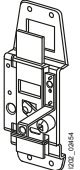

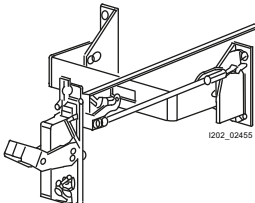
¹⁾ IP40 with additional masking frame mounted on the door cut-out.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150 UL (DG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Price per PU		
Operating mechanisms					
3-pole					
Front-operated rotary operating mechanisms					
		Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks	3VL9300-3JA01	1	1 unit 1CC
3VL9.00-3JA01					
Door-coupling rotary operating mechanisms, complete					
		Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks), NEMA 1, 12	3VL9300-3JD01	1	1 unit 1CC
3VL9.00-3JD01					
Switching mechanism for door-coupling rotary operating mechanisms					
		Switching mechanism	3VL9300-3JE01	1	1 unit 1CC
3VL9.00-3JE01					
Handle for door-coupling rotary operating mechanisms					
		Standard version			
		NEMA 1, 12	3VL9600-3JF11	1	1 unit 1CC
		NEMA 3R	3VL9600-3JF01	1	1 unit 1CC
		NEMA 4X	3VL9600-3JF41	1	1 unit 1CC
		EMERGENCY-STOP version	3VL9600-3JG01	1	1 unit 1CC
		• Red knob • Yellow indicator plate			
Extension shaft for door-coupling rotary operating mechanisms					
		2 inch (50 mm)	3VL9600-3JJ01	1	1 unit 1CC
		3 inch (76 mm)	—		
		12 inch (0.3 m)	3VL9600-3JJ11	1	1 unit 1CC
		16 inch (0.4 m)	3VL9600-3JJ21	1	1 unit 1CC
		24 inch (0.6 m) with support bracket	3VL9600-3JJ41	1	1 unit 1CC
NFPA-79 intermediate operating mechanism					
		For door-coupling rotary operating mechanisms	3VL9300-3JF81	1	1 unit 1CC
3VL9300-3JF81					
Operating mechanism with flange connection for variable installation depth					
		Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob ¹⁾	3VL9300-3JS01	1	1 unit 1CC
3VL9300-3JS01		NEMA 1, 3R, 12 plastic	3VL9300-3JS41	1	1 unit 1CC
		NEMA 4, 4X chrome-plated steel			
		Black knob ¹⁾	3VL9300-3JS11	1	1 unit 1CC
		NEMA 1, 3R, 12 plastic	3VL9300-3JS51	1	1 unit 1CC
		NEMA 4, 4X chrome-plated steel			

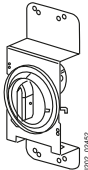
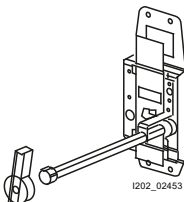
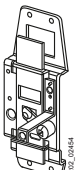
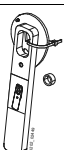
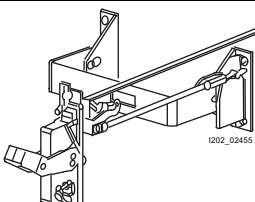
¹⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.	Price per PU		
Operating mechanisms					
 <p>3VL9.00-3JA01</p>	<p>3-pole Front-operated rotary operating mechanisms Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks</p>		3VL9400-3JA01	1	1 unit 1CC
 <p>3VL9.00-3JD01</p>	<p>Door-coupling rotary operating mechanisms, complete Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks) NEMA 1, 12</p>		3VL9400-3JD01	1	1 unit 1CC
 <p>3VL9800-3JE01</p>	<p>Switching mechanism for door-coupling rotary operating mechanisms Switching mechanism</p>		3VL9400-3JE01	1	1 unit 1CC
<p>Handle for door-coupling rotary operating mechanisms Standard version</p>		<p>NEMA 1, 12 NEMA 3R NEMA 4X</p>	<p>3VL9600-3JF11 3VL9600-3JF01 3VL9600-3JF41</p>	1	1 unit 1CC
<p>EMERGENCY-STOP version • Red knob • Yellow indicator plate</p>		NEMA 1, 12	3VL9600-3JG01	1	1 unit 1CC
<p>Extension shaft for door-coupling rotary operating mechanisms</p>		<p>2 inch (50 mm) 3 inch (76 mm) 12 inch (0.3 m) 16 inch (0.4 m) 24 inch (0.6 m) with support bracket</p>	<p>3VL9600-3JJ01 -- 3VL9600-3JJ11 3VL9600-3JJ21 3VL9600-3JJ41</p>	1	1 unit 1CC
 <p>3VL9800-3JF81</p>	<p>NFPA-79 intermediate operating mechanism For door-coupling rotary operating mechanisms</p>		3VL9600-3JF81	1	1 unit 1CC
 <p>3VL9400-3JS01</p>	<p>Operating mechanism with flange connection for variable installation depth Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel Black knob¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel</p>		<p>3VL9400-3JS01 3VL9400-3JS41</p>	1	1 unit 1CC
			<p>3VL9400-3JS11 3VL9400-3JS51</p>	1	1 unit 1CC

¹⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No. Price per PU				d	Article No. www.siemens.com/ product?Article No. Price per PU			
	--					--			
	3VL9600-3JD01	1	1 unit	1CC		--			
	3VL9600-3JE01	1	1 unit	1CC		3VL9800-3JE01	1	1 unit	1CC
	3VL9600-3JF11 3VL9600-3JF01 3VL9600-3JF41 3VL9600-3JG01	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC		3VL9800-3JF01 3VL9800-3JF01 3VL9800-3JF41 --	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
	3VL9600-3JJ01 -- 3VL9600-3JJ11 3VL9600-3JJ21 3VL9600-3JJ41	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CC 1CC 1CC 1CC		-- 3VL9800-3JJ01 3VL9800-3JJ11 -- 3VL9800-3JJ21	1 1	1 unit 1 unit	1CC 1CC
	3VL9600-3JF81	1	1 unit	1CC		3VL9800-3JF81	1	1 unit	1CC
	--					--			
	--					--			
	--					--			
	--					--			

2

Molded Case Circuit Breakers

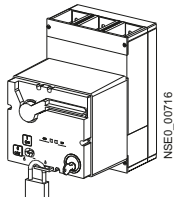
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?ArticleNo.	Price per PU		

Operating mechanisms



3VL9.00-3M.01

3-pole

Motorized operating mechanism with spring energy mechanism¹⁾ (UL file: E69455)

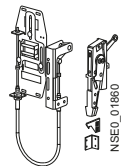
Degree of protection IP30, with locking device for 3 padlocks, synchronizable

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

3VL9300-3MJ01	1	1 unit	1CC
3VL9300-3ML01	1	1 unit	1CC
3VL9300-3MS01	1	1 unit	1CC
3VL9300-3MN01	1	1 unit	1CC
3VL9300-3MQ01	1	1 unit	1CC

Toggle lever extension

--



3VL9.00-3JM01

Max-Flex operating mechanism, complete including switching mechanism, Bowden cable, red/black knob, NEMA 1, 3R, 12 plastic

Bowden cable, 36 inch (0.9 m)

Bowden cable, 48 inch (1.2 m)

3VL9300-3JM01	1	1 unit	1CC
--			

Knob for Max-Flex operating mechanism

Red/black knob²⁾

NEMA 1, 3R, 12 plastic

NEMA 1, 3R, 12 steel – epoxy sheathed

NEMA 4, 4X chrome-plated steel

Gray knob²⁾

NEMA 1, 3R, 12 plastic

Black knob²⁾

NEMA 1, 3R, 12 steel – epoxy sheathed

3VL9600-3JP01	1	1 unit	1CC
3VL9600-3JP21	1	1 unit	1CC
3VL9600-3JP41	1	1 unit	1CC
3VL9600-3JP11	1	1 unit	1CC
3VL9600-3JP61	1	1 unit	1CC

Switching mechanism for Max-Flex operating mechanism

3VL9300-3JN01	1	1 unit	1CC
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Bowden cable for Max-Flex operating mechanism

36 inch (0.9 m)

48 inch (1.2 m)

60 inch (1.5 m)

72 inch (1.8 m)

84 inch (2.1 m)

96 inch (2.4 m)

120 inch (3.0 m)

144 inch (3.6 m)

3VL9300-3JQ31	1	1 unit	1CC
3VL9300-3JQ41	1	1 unit	1CC
3VL9300-3JQ61	1	1 unit	1CC
3VL9300-3JQ71	1	1 unit	1CC
3VL9300-3JQ81	1	1 unit	1CC
3VL9300-3JQ21	1	1 unit	1CC
3VL9300-3JQ01	1	1 unit	1CC
3VL9300-3JQ11	1	1 unit	1CC

Screw set

For attaching the Max Flex operating mechanism incl. circuit breaker to an 8US busbar adapter (60 mm busbar system).

• 1 set = 3 screws size M4 x 100 mm³⁾⁴⁾

• 1 set = 2 screws size M6 x 100 mm and 2 special screws with threaded head⁵⁾

3VL9300-8SE20	1	1 unit	1CC
--			

Leading auxiliary switches for Max-Flex operating mechanism

• 1 changeover contact with 1.5 m long cables

• 2 changeover contacts with 1.5 m long cables

3VL9300-2AP11	1	1 unit	1CC
3VL9300-2AP21	1	1 unit	1CC

¹⁾ For safety lock as an assembly kit for retrofitting, see pages 2/277 to 2/281.

²⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

³⁾ The combination of molded case circuit breaker VL150X (CG) incl. Max-Flex operating mechanism on 8US busbar adapter is not possible.

⁴⁾ For 3VL25/DG and 3VL35/FG, please use the busbar adapter 8US1213-4AQ03.

⁵⁾ For 3VL41/JG and 3VL48/LG, please use the busbar adapter 8US1213-4AH00.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9400-3MJ01		1	1 unit	1CC		3VL9600-3MJ01		1	1 unit	1CC
	3VL9400-3ML01		1	1 unit	1CC		3VL9600-3ML01		1	1 unit	1CC
	3VL9400-3MS01		1	1 unit	1CC		3VL9600-3MS01		1	1 unit	1CC
	3VL9400-3MN01		1	1 unit	1CC		3VL9600-3MN01		1	1 unit	1CC
	3VL9400-3MQ01		1	1 unit	1CC		3VL9600-3MQ01		1	1 unit	1CC
	3VL9400-3HN01		1	1 unit	1CC		3VL9600-3HN01		1	1 unit	1CC
	--						--				
	3VL9400-3JM01		1	1 unit	1CC		3VL9600-3JM01		1	1 unit	1CC
	3VL9600-3JP01		1	1 unit	1CC		3VL9600-3JP01		1	1 unit	1CC
	3VL9600-3JP21		1	1 unit	1CC		3VL9600-3JP21		1	1 unit	1CC
	3VL9600-3JP41		1	1 unit	1CC		3VL9600-3JP41		1	1 unit	1CC
	3VL9600-3JP11		1	1 unit	1CC		3VL9600-3JP11		1	1 unit	1CC
	3VL9600-3JP61		1	1 unit	1CC		3VL9600-3JP61		1	1 unit	1CC
	3VL9400-3JN01		1	1 unit	1CC		3VL9600-3JN01		1	1 unit	1CC
	3VL9600-3JQ31		1	1 unit	1CC		3VL9600-3JQ31		1	1 unit	1CC
	3VL9600-3JQ41		1	1 unit	1CC		3VL9600-3JQ41		1	1 unit	1CC
	3VL9600-3JQ61		1	1 unit	1CC		3VL9600-3JQ61		1	1 unit	1CC
	3VL9600-3JQ71		1	1 unit	1CC		3VL9600-3JQ71		1	1 unit	1CC
	3VL9600-3JQ81		1	1 unit	1CC		3VL9600-3JQ81		1	1 unit	1CC
	3VL9600-3JQ21		1	1 unit	1CC		3VL9600-3JQ21		1	1 unit	1CC
	3VL9600-3JQ01		1	1 unit	1CC		3VL9600-3JQ01		1	1 unit	1CC
	3VL9600-3JQ11		1	1 unit	1CC		3VL9600-3JQ11		1	1 unit	1CC
	--						--				
	3VL9460-8SE20		1	1 unit	1CC		--				
	3VL9400-2AP11		1	1 unit	1CC		3VL9800-2AP11		1	1 unit	1CC
	3VL9400-2AP21		1	1 unit	1CC		3VL9800-2AP21		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?ArticleNo.	Price per PU		

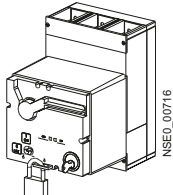
Operating mechanisms

3-pole

Motorized operating mechanism¹⁾ (UL file: E69455)

Degree of protection IP30, with locking device for 3 padlocks, not synchronizable

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250



3VL9.00-3M.01

3VL9800-3MJ01	1	1 unit	1CC
3VL9800-3ML01	1	1 unit	1CC
3VL9800-3MS01	1	1 unit	1CC
3VL9800-3MN01	1	1 unit	1CC
3VL9800-3MQ01	1	1 unit	1CC

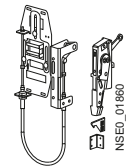
Toggle lever extension

3VL9800-3HN01	1	1 unit	1CC
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Max Flex operating mechanism, complete including switching mechanism, Bowden cable, red/black knob, NEMA 1, 3R, 12 steel – epoxy-sheathed

Bowden cable, 36 inch (0.9 m)

Bowden cable, 48 inch (1.2 m)



3VL9.00-3JM01

--			
3VL9800-3JM01	1	1 unit	1CC

Knob for Max-Flex operating mechanism

Red/black knob²⁾

NEMA 1, 3R, 12 plastic

NEMA 1, 3R, 12 steel – epoxy sheathed

NEMA 4, 4X chrome-plated steel

Gray knob²⁾

NEMA 1, 3R, 12 plastic

Black knob²⁾

NEMA 1, 3R, 12 steel – epoxy sheathed

--			
3VL9800-3JP01	1	1 unit	1CC
3VL9800-3JP41	1	1 unit	1CC

--			
3VL9800-3JP11	1	1 unit	1CC

Switching mechanism for Max-Flex operating mechanism

3VL9800-3JN01	1	1 unit	1CC
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Bowden cable for Max-Flex operating mechanism

36 inch (0.9 m)

48 inch (1.2 m)

60 inch (1.5 m)

72 inch (1.8 m)

84 inch (2.1 m)

96 inch (2.4 m)

120 inch (3.0 m)

144 inch (3.6 m)

--			
3VL9800-3JQ41	1	1 unit	1CC
3VL9800-3JQ61	1	1 unit	1CC
3VL9800-3JQ71	1	1 unit	1CC
3VL9800-3JQ81	1	1 unit	1CC
3VL9800-3JQ21	1	1 unit	1CC
3VL9800-3JQ01	1	1 unit	1CC
3VL9800-3JQ11	1	1 unit	1CC

Leading auxiliary switches for Max-Flex operating mechanism

• 1 changeover contact with 1.5 m long cables

• 2 changeover contacts with 1.5 m long cables

3VL9800-2AP11	1	1 unit	1CC
3VL9800-2AP21	1	1 unit	1CC

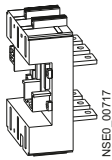
¹⁾ For safety lock as an assembly kit for retrofitting, see pages 2/277 to 2/281.

²⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
	d				
Plug-in versions/withdrawable versions (UL file: E69455)					
 <p>3VL9.00-4PA31</p>	3-pole				
	Plug-in base assembly kits				
	Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin				
	Rear connections				
	3-pole				
	Front connections				
	3-pole				
Blade contacts					
As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin					
1 set = 6 units 3-pole					
Trip pins and springs					
As replacement for plug-in molded case circuit breaker					
Auxiliary circuit plug connections for plug-in bases¹⁾					
Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases (coupling with screw terminal)					
8 terminals ¹⁾					
Position signaling switches					
(connected/disconnected position)					
For plug-in base, 1 changeover contact, max. 2 signaling switches possible					

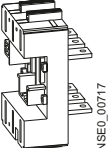
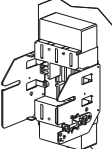
¹⁾ It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	for VL150 UL (DG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
d					
Plug-in versions/withdrawable versions (UL file: E69455)					
 <p>3VL9.00-4PA31</p>	3-pole Plug-in base assembly kits Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin				
	Rear connections 3-pole	3VL9200-4PA31	1	1 unit	1CC
	Front connections 3-pole	3VL9200-4PC31	1	1 unit	1CC
 <p>3VL9.00-4WA31</p>	Withdrawable versions Same as plug-in base assembly kit, with additional side panels and racking mechanism				
	Rear connections 3-pole	3VL9200-4WA31	1	1 unit	1CC
	Front connections 3-pole	3VL9200-4WC31	1	1 unit	1CC
	Blade contacts As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin				
	1 set = 6 units	3-pole	3VL9200-4PS31	1	1 unit 1CC
	Trip pins and springs As replacement for plug-in/withdrawable circuit breaker				
			3VL9300-4PF01	1	1 unit 1CC
	Auxiliary circuit plug connections for plug-in bases Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)				
	8 terminals		3VL9300-4PJ01	1	1 unit 1CC
	Position signaling switches (connected/disconnected position) For plug-in base, 1 changeover contact, max. 2 signaling switches possible				
			3VL9000-4WL01	1	1 unit 1CC

¹⁾ It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).

²⁾ It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per molded case circuit breaker (24 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

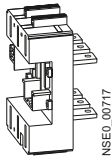
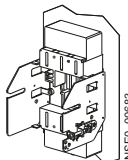
SD	For VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9300-4PA31		1	1 unit	1CC		3VL9400-4PA31		1	1 unit	1CC
	3VL9300-4PC31		1	1 unit	1CC		3VL9400-4PC31		1	1 unit	1CC
	3VL9300-4WA31		1	1 unit	1CC		3VL9400-4WA31		1	1 unit	1CC
	3VL9300-4WC31		1	1 unit	1CC		3VL9400-4WC31		1	1 unit	1CC
	3VL9300-4PS31		1	1 unit	1CC		3VL9400-4PS31		1	1 unit	1CC
	3VL9300-4PF01		1	1 unit	1CC		3VL9400-4PF01		1	1 unit	1CC
	1) 3VL9300-4PJ01		1	1 unit	1CC		2) 3VL9400-4PJ01		1	1 unit	1CC
	3VL9000-4WL01		1	1 unit	1CC		3VL9000-4WL01		1	1 unit	1CC

2

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL400X (LG frame)	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Plug-in versions/withdrawable versions (UL file: E69455)							
3-pole							
Plug-in base assembly kits							
Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
 3VL9.00-4PA31							
Rear connections							
3-pole							
			3VL9460-4PA31		1	1 unit	1CC
Front connections							
3-pole							
			3VL9460-4PC31		1	1 unit	1CC
Withdrawable versions							
Same as plug-in base assembly kit, with additional side panels and racking mechanism							
 3VL9.00-4WA31							
Rear connections¹⁾							
3-pole							
			3VL9460-4WA31		1	1 unit	1CC
Front connections							
3-pole							
			3VL9460-4WC31		1	1 unit	1CC
Blade contacts							
As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin							
1 set = 6 units 3-pole							
			3VL9460-4PS31		1	1 unit	1CC
Trip pins and springs							
As replacement for plug-in/withdrawable molded case circuit breaker							
			3VL9460-4PF01		1	1 unit	1CC
Auxiliary circuit plug connections for plug-in bases²⁾							
Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals ²⁾							
			3VL9460-4PJ01		1	1 unit	1CC
Position signaling switches							
(connected/disconnected position)							
For plug-in base, 1 changeover contact, max. 2 signaling switches possible							
			3VL9000-4WL01		1	1 unit	1CC

¹⁾ With VL800 UL (MG frame) to VL1200 UL (NG frame) as vertical connection.



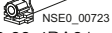



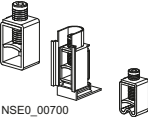

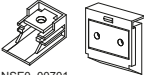
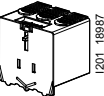




²⁾ It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per molded case circuit breaker (24 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.				
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Rear connections						
	Short connection (1 unit)	3VL9100-4RA01		1	1 unit	1CC
	Long connection (1 unit)	3VL9100-4RB01		1	1 unit	1CC
	Terminal kit (2 short + 1 long) 3-pole	3VL9100-4RC31		1	1 unit	1CC
	Short flat connection (1 unit)	3VL9100-4RK01		1	1 unit	1CC
	Long flat connection (1 unit)	3VL9100-4RL01		1	1 unit	1CC
	Flat connector kit (2 short + 1 long) 3-pole	3VL9100-4RM31		1	1 unit	1CC
Steel box terminal with auxiliary conductor connection						
	Terminal with auxiliary conductor connection up to 0.5 A	3VL9120-4TN31		1	1 unit	1CC
Box terminals						
	Connection for flexible flat copper busbar or cable 1 set = 3 units	3VL9120-4TC31		1	1 unit	1CC
Circular conductor terminals¹⁾						
	Only for cables (Al or Cu) Aluminum terminal (tinned) 1 set = 3 units	3VL9130-4TD31		1	1 unit	1CC
Terminals with screw connection -						
	With insulator (for rear) for use with busbars and cable lugs 1 set = 3 units Metric thread	3VL9100-4TA31		1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers²⁾						
	Degree of protection IP30 for main connections 1 set = 2 units					
	Extended 3-pole	3VL9300-8CA31		1	1 unit	1CC
	Standard 3-pole	3VL9300-8CB31		1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers						
	Degree of protection IP2X for main connections 1 set = 1 unit (consisting of top part and bottom part) 3-pole	3VL9300-8CD31		1	1 unit	1CC
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions						
	1 set = 2 units	3VL9300-8CE01		1	1 unit	1CC

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Circular conductor terminals for VL150X UL (CG frame) suitable for 60 A to 150 A.

²⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	for VL150 UL (DG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.				
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Front connecting bars						
		Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		3VL9200-4EC31	1	1 unit 1CC
Rear connections						
		Short connection (1 unit)		3VL9200-4RA01	1	1 unit 1CC
		Long connection (1 unit)		3VL9200-4RB01	1	1 unit 1CC
		Terminal kit (2 short + 1 long) 3-pole		3VL9200-4RC31	1	1 unit 1CC
		Short flat connection (1 unit)		3VL9200-4RK01	1	1 unit 1CC
		Long flat connection (1 unit)		3VL9200-4RL01	1	1 unit 1CC
		Flat connector kit (2 short + 1 long) 3-pole		3VL9200-4RM31	1	1 unit 1CC
		Flat connecting bar (1 unit)		--		
		Flat connecting bars 1 set = 3 units, 3-pole		--		
Box terminal						
<u>Connection for flexible flat copper busbar or cable</u>						
		1 set = 3 units		3VL9220-4TC31	1	1 unit 1CC
Circular conductor terminal with terminal covers for cable (only for Al or Cu cables)						
		Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units		3VL9215-4TD31	1	1 unit 1CC
Steel box terminal with auxiliary conductor connection						
		Terminal with auxiliary conductor connection up to 0.5 A		3VL9220-4TN31	1	1 unit 1CC
Circular conductor terminals¹⁾						
<u>Only for cables (Al or Cu)</u> <u>Aluminum terminal (tinned)</u>						
		1 set = 3 units		3VL9230-4TD31	1	1 unit 1CC
Multiple feed-in terminals						
<u>Only for cables (Al or Cu)</u> <u>Aluminum terminal (tinned)</u>						
		1 set = 3 units	Double	--		
Multiple feed-in terminal with terminal cover						
		Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units	Double	--		

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Circular conductor terminals for VL150 UL suitable for 60 to 150 A.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

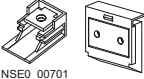

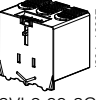



SD	For VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9300-4EC31		1	1 unit	1CC		3VL9400-4EC31		1	1 unit	1CC
	3VL9300-4RA01		1	1 unit	1CC		3VL9400-4RA01		1	1 unit	1CC
	3VL9300-4RB01		1	1 unit	1CC		3VL9400-4RB01		1	1 unit	1CC
	3VL9300-4RC31		1	1 unit	1CC		3VL9400-4RC31		1	1 unit	1CC
	3VL9300-4RK01		1	1 unit	1CC		3VL9400-4RK01		1	1 unit	1CC
	3VL9300-4RL01		1	1 unit	1CC		3VL9400-4RL01		1	1 unit	1CC
	3VL9300-4RM31		1	1 unit	1CC		3VL9400-4RM31		1	1 unit	1CC
	--						--				
	--						--				
	3VL9335-4TC31		1	1 unit	1CC		3VL9460-4TC31		1	1 unit	1CC
	--						--				
	3VL9335-4TN31		1	1 unit	1CC		3VL9460-4TN31		1	1 unit	1CC
	3VL9335-4TD31		1	1 unit	1CC		3VL9475-4TD31		1	1 unit	1CC
	--						3VL9425-4TF31		1	1 unit	1CC
	--						3VL9460-4TF31		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	for VL150 UL (DG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
Connection parts for fixed-mounted molded case circuit breakers					
3-pole					
Connection with screw-type terminals					
With insulator (for rear) for use with busbars and cable lugs					
 NSE0_00701					
3VL9.00-4TA.1	1 set = 3 units	Metric thread		1	1 unit 1CC
	1 set = 3 units	Inch thread		1	1 unit 1CC
Cable lug connection					
 1201_16964	1 set = 3 units			1	1 unit 1CC
3VL9220-4TM31					
Connection covers (terminal covers) for circuit breakers ¹⁾					
Degree of protection IP30 for main connections					
1 set = 2 units					
 1201_16967	Extended	3-pole		1	1 unit 1CC
3VL9.00-3CA.1					
 NSE0_00730	Standard	3-pole		1	1 unit 1CC
3VL9.00-3CB.1					
Connection covers (terminal covers) for circuit breakers					
Degree of protection IP2X for main connections					
1 set = 1 unit (consisting of top part and bottom part)					
 1201_16983	3-pole			1	1 unit 1CC
3VL9300-8CD31					
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions					
 NSE0_00731	1 set = 2 units			1	1 unit 1CC
3VL9.00-8CE01					

¹⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9300-4TA31		1	1 unit	1CC		3VL9400-4TA31		1	1 unit	1CC
	3VL9300-4TB31		1	1 unit	1CC		--				
	3VL9335-4TM31		1	1 unit	1CC		3VL9460-4TM31		1	1 unit	1CC
	3VL9300-8CA31		1	1 unit	1CC		3VL9400-8CA31		1	1 unit	1CC
	3VL9300-8CB31		1	1 unit	1CC		3VL9400-8CB31		1	1 unit	1CC
	3VL9300-8CD31		1	1 unit	1CC		3VL9400-8CD31		1	1 unit	1CC
	3VL9300-8CE01		1	1 unit	1CC		3VL9600-8CE01		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Front connecting bars						
Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		3VL9460-4EC31		1	1 unit	1CC
Rear connections						
Short connection (1 unit)		--				
Long connection (1 unit)		--				
Terminal kit (2 short + 1 long) 3-pole		--				
Short flat connection (1 unit)		--				
Long flat connection (1 unit)		3VL9460-4RP01		1	1 unit	1CC
Flat connector kit (2 short + 1 long) 3-pole		--				
Flat connecting bar (1 unit)		3VL9460-4RG01		1	1 unit	1CC
Flat connecting bars 1 set = 3 units, 3-pole		3VL9460-4RH31		1	1 unit	1CC
Box terminal						
Connection for flexible flat copper busbar or cable 1 set = 3 units		--				
Circular conductor terminals						
Only for cables (Al or Cu) Aluminum terminal (tinned) 1 set = 3 units		3VL9475-4TD31		1	1 unit	1CC
Multiple feed-in terminals						
Only for cables (Al or Cu) Aluminum terminal (tinned) 1 set = 3 units		--				
Double		3VL9460-4TX31		1	1 unit	1CC
• Terminal on feeder side ¹⁾		3VL9460-4TY31		1	1 unit	1CC
• Terminal on outgoing side ¹⁾		--				
3-fold		--				
4-fold		--				
Connection with screw-type terminals						
With insulator (for rear) for use with busbars and cable lugs 1 set = 3 units		Metric thread	3VL9460-4TA31	1	1 unit	1CC
1 set = 3 units		Inch thread	3VL9460-4TB31	1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers²⁾						
Degree of protection IP30 for main connections 1 set = 2 units						
Extended		3-pole	3VL9400-8CA31	1	1 unit	1CC
Standard		3-pole	3VL9400-8CB31	1	1 unit	1CC
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions³⁾						
1 set = 2 units			3VL9600-8CE01	1	1 unit	1CC

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Extended terminal cover included in scope of supply.

²⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

³⁾ Plug-in versions: not for VL1200 UL (NG frame); withdrawable version: not for VL800 UL (MG frame) and VL1200 UL (NG frame).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9600-4EC31		1	1 unit	1CC		3VL9800-4EF01		1	1 unit	1CC
	--						--				
	--						--				
	--						--				
	3VL9600-4RP01		1	1 unit	1CC		--				
	--						--				
	3VL9600-4RG01		1	1 unit	1CC		3VL9700-4RG01		1	1 unit	1CC
	3VL9600-4RH31		1	1 unit	1CC		3VL9700-4RH31		1	1 unit	1CC
	--						--				
	--						--				
	3VL9675-4TF31		1	1 unit	1CC		--				
	--						--				
	--						--				
	3VL9650-4TG31		1	1 unit	1CC		3VL9775-4TG31		1	1 unit	1CC
	--						3VL9750-4TH31		1	1 unit	1CC
	3VL9600-4TA31		1	1 unit	1CC		3VL9800-4TA31		1	1 unit	1CC
	3VL9600-4TB31		1	1 unit	1CC		3VL9800-4TB31		1	1 unit	1CC
	3VL9600-8CA31		1	1 unit	1CC		3VL9800-8CA31		1	1 unit	1CC
	3VL9600-8CB31		1	1 unit	1CC		3VL9800-8CB31		1	1 unit	1CC
	3VL9600-8CE01		1	1 unit	1CC		3VL9800-8CE01		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
Connection parts for fixed-mounted molded case circuit breakers					
3-pole					
Front connecting bars					
Terminal set with cover for mounting the circuit breaker on busbars		3VL9800-4EF01		1	1 unit 1CC
1 set = 3 units					
<ul style="list-style-type: none"> Incoming side, mounting from the top Incoming side, mounting from the bottom 					
Rear connections					
Short connection (1 unit)		--			
Long connection (1 unit)		--			
Terminal kit (2 short + 1 long) 3-pole		--			
Short flat connection (1 unit)		--			
Long flat connection (1 unit)		--			
Flat connector kit (2 short + 1 long) 3-pole		--			
Flat connecting bar (1 unit)		--			
Flat connecting bars 1 set = 3 units, 3-pole		--			
Box terminal					
Connection for flexible flat copper busbar or cable					
1 set = 3 units		--			
Circular conductor terminals					
Only for cables (Al or Cu)					
Aluminum terminal (tinned)					
1 set = 3 units		--			
Multiple feed-in terminals					
Only for cables (Al or Cu)					
Aluminum terminal (tinned)					
4-fold (for installation with mounting base)		3VL9875-4TH01		1	1 unit 1CC
1 unit					
Terminals with screw connection -					
With insulator (for rear) for use with busbars and cable lugs					
1 set = 3 units		Metric thread	3VL9800-4TA31	1	1 unit 1CC
1 set = 3 units		Inch thread	3VL9800-4TB31	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers¹⁾					
Degree of protection IP30 for main connections					
1 set = 2 units					
Extended		3-pole	3VL9800-8CA31	1	1 unit 1CC
Standard		3-pole	3VL9800-8CB31	1	1 unit 1CC
Phase barriers for molded case circuit breakers, fixed-mounted					
1 set = 2 units			3VL9800-8CE01	1	1 unit 1CC
Mounting base					
Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base					
Front connections		3VL9800-4TU31		1	1 unit 1CC
Rear connections		3VL9800-4TV31		1	1 unit 1CC

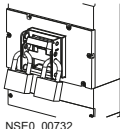
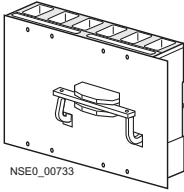
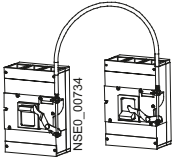
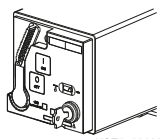
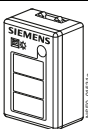
¹⁾ Not UL-listed.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame) and VL150 UL (DG frame)	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d						
Interlocks							
3-pole							
 NSE0_00732 3VL9.00-3HL01		Locking devices for toggle levers For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)	3VL9300-3HL01		1	1 unit	1CC
 NSE0_00733 3VL9.00-8L.01		Rear interlocking modules For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers	3VL9300-8LC01		1	1 unit	1CC
 NSE0_00734 3VL9.00-8LA01		Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker Note Combinations with next size up/down possible (see Article No.)	3VL9300-8LA01		1	1 unit	1CC
		Bowden cables for Bowden cable interlocking ¹⁾ • Cable length 0.5 m • Cable length 1.0 m • Cable length 1.5 m	3VL9000-8LH11 3VL9000-8LH21 3VL9000-8LH31		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
		Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws	3VL9300-8SA40		1	1 unit	1CC
 NSE0_00680 3VL9.00-8L.01		Safety lock assembly kits Key can be removed with the molded case circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Ronis lock type <u>For motorized operating mechanism with stored energy mechanism</u> Filli Giussani lock type	3VL9715-8HA01 3VL9321-8HA01		1 1	1 unit 1 unit	1CC 1CC
		Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) • Electronic Trip Unit • Thermal-magnetic ²⁾	3VL9700-8BL01 3VL9300-8BM01		1 1	1 unit 1 unit	1CC 1CC
 NSE0_00614 3VL9000-8AP01		Battery power supply for activating/parameterizing/tripping the Electronic Trip Units (two 9 V blocks are required in addition)	3VL9000-8AP01		1	1 unit	1CC

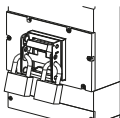
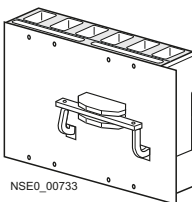
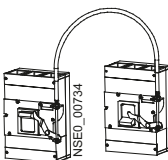
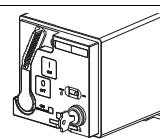
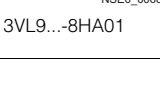



¹⁾ Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism!

²⁾ Also suitable for VL150X UL (CG frame).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL250 UL (FG frame) Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
 <p>NSE0_00732 3VL9.00-3HL01</p>	3-pole Locking devices for toggle levers For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)					
				1	1 unit	1CC
 <p>NSE0_00733 3VL9.00-8L.01</p>	Rear interlocking modules For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers					
				1	1 unit	1CC
 <p>NSE0_00734 3VL9.00-8LA01</p>	Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker					
				1	1 unit	1CC
 <p>NSE0_00680 3VL9...-8HA01</p>	Bowden cables for Bowden cable interlocking¹⁾ <ul style="list-style-type: none"> • Cable length 0.5 m • Cable length 1.0 m • Cable length 1.5 m 					
				1	1 unit	1CC
				1	1 unit	1CC
				1	1 unit	1CC
 <p>NSE0_00680 3VL9...-8HA01</p>	Safety lock assembly kits Key can be removed with the molded case circuit breaker in the "OFF" position <u>For motorized operating mechanism with stored energy mechanism</u> Lock types					
				1	1 unit	1CC
 <p>120...18885 3VL9...-8B.01</p>	Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws					
				1	1 unit	1CC
 <p>120...18885 3VL9...-8B.01</p>	Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)					
				1	1 unit	1CC
				1	1 unit	1CC
 <p>120...18885 3VL9000-8AP01</p>	Battery power supply for activating/parameterizing/tripping the electronic trip units (two 9 V blocks are required in addition)					
				1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

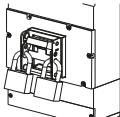
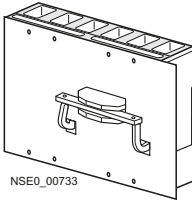
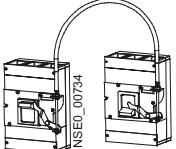
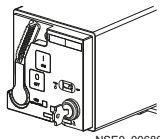


Accessories and spare parts

SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9400-3HL01		1	1 unit	1CC		3VL9400-3HL01		1	1 unit	1CC
	3VL9400-8LC01		1	1 unit	1CC		3VL9400-8LC01		1	1 unit	1CC
	3VL9400-8LA01		1	1 unit	1CC		3VL9400-8LA01		1	1 unit	1CC
	-- 3VL9000-8LH21 3VL9000-8LH31		1 1	1 unit 1 unit	1CC 1CC		-- 3VL9000-8LH21 3VL9000-8LH31		1 1	1 unit 1 unit	1CC 1CC
	3VL9715-8HA01 --		1	1 unit	1CC		3VL9715-8HA01 --		1	1 unit	1CC
	3VL9500-8SA40		1	1 unit	1CC		3VL9500-8SA40		1	1 unit	1CC
	3VL9700-8BL01 3VL9400-8BM01 3VL9000-8AP01		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC		3VL9700-8BL01 3VL9400-8BM01 3VL9000-8AP01		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Interlocks						
 <p>NSE0_00732</p> <p>3VL9.00-3HL01</p>	<p>3-pole</p> <p>Locking devices for toggle levers</p> <p>For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)</p>	3VL9600-3HL01		1	1 unit	1CC
 <p>NSE0_00733</p> <p>3VL9.00-8L.01</p>	<p>Rear interlocking modules</p> <p>For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply)</p> <p>Fixed-mounted molded case circuit breakers</p>	3VL9600-8LC01		1	1 unit	1CC
 <p>NSE0_00734</p> <p>3VL9.00-8LA01</p>	<p>Interlocking modules for Bowden cable interlocking¹⁾</p> <p>For the mechanical interlocking of two molded case circuit breakers.</p> <p>Interlocking module for one molded case circuit breaker</p> <p>Note</p> <p>Combinations with next size up/down possible (see Article No.)</p>	3VL9600-8LA01		1	1 unit	1CC
	<p>Bowden cables for Bowden cable interlocking¹⁾</p> <ul style="list-style-type: none"> • Cable length 0.5 m • Cable length 1.0 m • Cable length 1.5 m 	<p>--</p> <p>3VL9000-8LH21</p> <p>3VL9000-8LH31</p>		1	1 unit	1CC
 <p>NSE0_00680</p> <p>3VL9....-8HA01</p>	<p>Safety lock assembly kits</p> <p>Key can be removed with the molded case circuit breaker in the "OFF" position</p> <p><u>For motorized operating mechanism with stored energy mechanism</u></p> <p>Lock types</p> <ul style="list-style-type: none"> • Ronis • Filli Giussani 	<p>3VL9715-8HA01</p> <p>--</p>		1	1 unit	1CC
	<p>Sets of fixing screws (metric thread)</p> <p>Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface</p> <p>Set with 4 screws</p>	3VL9600-8SA40		1	1 unit	1CC
 <p>120_18885</p> <p>3VL9...-8B.01</p>	<p>Transparent covers for releases, sealable</p> <p>To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)</p> <ul style="list-style-type: none"> • For Electronic Trip Unit • For thermal-magnetic release 	<p>3VL9700-8BL01</p> <p>--</p>		1	1 unit	1CC
 <p>3VL9000-8AP01</p>	<p>Battery power supply for activating/parameterizing/tripping the Electronic Trip Units</p> <p>(two 9 V blocks are required in addition)</p>	3VL9000-8AP01		1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9800-3HL01		1	1 unit	1CC		3VL9800-3HL01		1	1 unit	1CC
	3VL9800-8LC01		1	1 unit	1CC		3VL9800-8LC01		1	1 unit	1CC
	3VL9800-8LA01		1	1 unit	1CC		3VL9800-8LA01		1	1 unit	1CC
	-- -- 3VL9000-8LH31		1	1 unit	1CC		-- -- 3VL9000-8LH31		1	1 unit	1CC
	3VL9715-8HA01 --		1	1 unit	1CC		3VL9715-8HA01 --		1	1 unit	1CC
	3VL9800-8SA40		1	1 unit	1CC		3VL9800-8SA40		1	1 unit	1CC
	3VL9700-8BL01 --		1	1 unit	1CC		3VL9700-8BL01 --		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

Molded Case Circuit Breakers

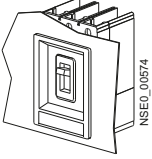
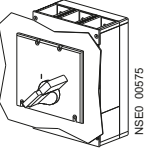
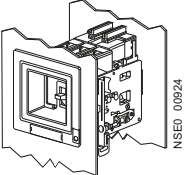
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

Further accessories

3-pole					
Masking frames (cover frames) for door cut-outs					
 <p>Masking frame A</p>	A IP40	Fixed-mounted or plug-in molded case circuit breaker	3VL9300-8BC01	1	1 unit 1CC
 <p>Masking frame B</p>	B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	3VL9300-8BG01	1	1 unit 1CC
 <p>Masking frame C</p>	C IP20	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	–		

Version	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

Further accessories

3-pole					
Masking frames (cover frames) for door cut-outs					
	A IP40	Fixed-mounted or plug-in molded case circuit breaker	3VL9600-8BC01	1	1 unit 1CC
	B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	3VL9600-8BG01	1	1 unit 1CC
	C IP20	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	3VL9600-8BH01	1	1 unit 1CC

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts**2**

SD	For VL150 UL (DG frame) and VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame) and VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				

3VL9300-8BC01

1 1 unit 1CC

3VL9400-8BC01

1 1 unit 1CC

3VL9300-8BG01

1 1 unit 1CC

3VL9400-8BG01

1 1 unit 1CC

3VL9300-8BH01

1 1 unit 1CC

3VL9400-8BH01

1 1 unit 1CC

SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				

3VL9800-8BC01

1 1 unit 1CC

3VL9800-8BC01

1 1 unit 1CC

3VL9800-8BG01

1 1 unit 1CC

3VL9800-8BG01

1 1 unit 1CC

3VL9800-8BH01

1 1 unit 1CC

3VL9800-8BH01

1 1 unit 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

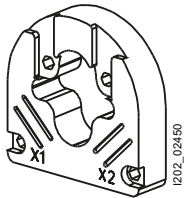
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Further accessories

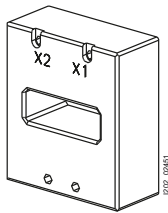
3-pole

Current transformers for N conductor/grounded neutral point of the transformer

for ground-fault protection in 4-wire three-phase systems



3VL9206-8TT01



3VL9660-8TT01

I_n /A of the ETU	Purpose				
60	for VL150 UL (DG frame)	3VL9206-8TT01		1	1 unit 1CC
100	for VL150 UL (DG frame)	3VL9310-8TT01		1	1 unit 1CC
	for VL250 UL (FG frame)	3VL9310-8TT01		1	1 unit 1CC
150	for VL150 UL (DG frame)	3VL9315-8TT01		1	1 unit 1CC
	for VL250 UL (FG frame)	3VL9315-8TT01		1	1 unit 1CC
250	for VL250 UL (FG frame)	3VL9425-8TT01		1	1 unit 1CC
	for VL400 UL (JG frame)	3VL9425-8TT01		1	1 unit 1CC
400	for VL400 UL (JG frame)	3VL9440-8TT01		1	1 unit 1CC
	for VL400X UL (LG frame)	3VL9440-8TT01		1	1 unit 1CC
600	for VL400X UL (LG frame)	3VL9660-8TT01		1	1 unit 1CC
	for VL800 UL (MG frame)	3VL9660-8TT01		1	1 unit 1CC
800	for VL800 UL (MG frame)	3VL9780-8TT01		1	1 unit 1CC
	for VL1200 UL (NG frame)	3VL9780-8TT01		1	1 unit 1CC
1000	for VL1200 UL (NG frame)	3VL9812-8TT01		1	1 unit 1CC
1200	for VL1200 UL (NG frame)	3VL9812-8TT01		1	1 unit 1CC
	for VL1600 UL (PG frame)	3VL9812-8TT01		1	1 unit 1CC
1600	for VL1600 UL (PG frame)	3VL9816-8TT01		1	1 unit 1CC

For type	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Accessories for communication							
3-pole							
Data transmission							
VL150 UL (DG frame) to VL1600 UL (PG frame)	COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker according to UL) Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU not included in delivery		3VL9000-8AU00		1	1 unit	1CC
VL150 UL (DG frame) to VL1600 UL (PG frame)	COM21 Release 2 (Modbus module for 3VL molded case circuit breaker according to UL) Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to a Modbus RTU bus system, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU not included in delivery		3VL9000-8AV00		1	1 unit	1CC
	Addressing plugs For assigning the module addresses without using a PC/PG on COM20/COM21 (Release 2) through the system interface		3UF7910-0AA00-0		1	1 unit	42J
VL150 UL (DG frame) to VL250 UL (FG frame)	COMKIT3 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Alarm switches • Protective cover to protect the connecting cable		3VL9300-8AQ61		1	1 unit	1CC
VL400 UL (JG frame) to VL400X UL (LG frame)	COMKIT4 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9400-8AQ61		1	1 unit	1CC
VL600 UL (MG frame) to VL1600 UL (PG frame)	COMKIT5 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9800-8AQ61		1	1 unit	1CC
VL150 UL (DG frame) to VL250 UL (FG frame)	COMKIT6 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Alarm switches • Protective cover to protect the connecting cable		3VL9300-8AQ71		1	1 unit	1CC
VL400 UL (JG frame) to VL400X UL (LG frame)	COMKIT7 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9400-8AQ71		1	1 unit	1CC
VL600 UL (MG frame) to VL1600 UL (PG frame)	COMKIT8 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9800-8AQ71		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Design

- Rated current range from 20 A to 1600 A
- Different making and breaking capacities for each size

N	Standard (35 kA)
H	High (65 kA)
L	Very high (100 kA)

- No power reduction/derating up to 40 °C
- Electronic Trip Unit from size 150 A (VL150 UL, DG frame), especially for time-based discrimination and ground-fault protection
- 2 families of internal accessories
- Complete bandwidth of external accessories, e.g. terminals also for aluminum cables.

All molded case circuit breakers are supplied with integrated overcurrent releases. The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers are available with different connection variants (see "Main connections, basic equipment and options", page 2/290). Auxiliary switches, alarm switches and auxiliary releases can be easily retrofitted in the molded case circuit breakers or, if requested, are already installed when delivered.

The breaking capacity is indicated on the front of every molded case circuit breaker.

- Standard breaking capacity:
35 kA at 50/60 Hz 480 V AC
- High breaking capacity:
65 kA at 50/60 Hz 480 V AC
- Very high breaking capacity:
100 kA at 50/60 Hz 480 V AC

Connection

The following connection types are available for 3VL molded case circuit breakers according to UL 489:

- Box terminal, suitable for stranded conductors,
- Screw terminals for flat connection,
- Circular conductor/multiple feed-in terminal for Al/Cu cables,
- Cable lug connection.

The infeed and outgoing sides can be chosen on the molded case circuit breaker to suit requirements. The electrical data remains unaffected.

Various terminals feature an auxiliary conductor connection. Up to 0.5 A can be tapped here to directly power other devices.

Bare conductors at the top terminals must be insulated in the space that is needed above the arc chute.

All auxiliary releases (shunt releases and undervoltage releases), auxiliary switches and alarm switches are equipped with screw terminals and therefore are easy to connect electrically.

The motorized operating mechanisms with spring energy store always feature terminals. The leading auxiliary switches for the rotary operating mechanisms are always supplied with connecting cables.

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers

The main components of the 3VL molded case circuit breakers according to UL are the three conducting paths with incoming and outgoing terminals. The fixed and movable contacts are designed in such a way that magnetic repulsion of the contacts takes place under short-circuit conditions. In conjunction with the arc splitter chambers, a dynamic impedance is created that causes a current limitation through the reduction in the harmful effects of I^2t and the I_p energy resulting during short circuits.

The 3VL molded case circuit breaker has a trip-free mechanism.

The double-insulated accessory compartments for the auxiliary releases and auxiliary switches are located on the left and right of the circuit breaker's operating mechanism.

The overcurrent releases for the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers have the following characteristics:

- The overcurrent releases are available in a thermal-magnetic version and in an electronic¹⁾ version.
- The thermal-magnetic releases have fixed overload releases and adjustable²⁾ short-circuit releases.

In the case of all versions of the 3VL molded case circuit breakers according to UL with electronic overcurrent release, the current transformers are in the same enclosure as the tripping electronics. They supply a signal proportional to the load current to the electronic overcurrent release system.

All 3VL molded case circuit breakers according to UL with electronic overcurrent release measure the actual rms current. This is the most accurate method of measurement. Currents in present-day electrical distribution systems with very high harmonics are evaluated reliably.

Overcurrent tripping systems

The switching unit (frame) and release unit are assembled and tested at the factory. Accordingly, the release unit can only be replaced at the factory. The infeed and outgoing sides can be chosen on the molded case circuit breakers to suit requirements.

1. Thermal-magnetic releases of the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers

The overcurrent releases and short-circuit releases work with bimetals and magnetic releases. They are available with fixed overload releases and adjustable short-circuit releases.²⁾

The 3VL molded case circuit breakers for starter combination applications are usually combined with a motor contactor and a suitable overload relay.

¹⁾ VL150X UL (CG frame) only thermal-magnetic.

²⁾ VL150X UL (CG frame) only with fixed short-circuit release.

The non-automatic air circuit breakers have integrated self-protection against short circuit so that back-up fuses can be omitted. Non-automatic air circuit breakers do not have overload protection.

2. Overcurrent releases of the VL150 UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers, electronic, ETU

The electronic tripping system consists of:

- 3 current transformers
- Evaluation electronics with microprocessor
- Intrinsic power supply, no external auxiliary power necessary
- Tripping solenoid.

In the case of VL150 UL (DG frame) and VL250 (FG frame) molded case circuit breakers, the left accessory compartment is needed for the tripping solenoid included in the scope of supply. In the case of all other sizes, the tripping solenoid is integrated in the release unit and the left and right accessory compartments can be used for auxiliary switches, alarm switches and additional auxiliary releases.

The protection functions of the electronic trip units are ensured without additional auxiliary voltage. The overcurrent releases are supplied with energy via internal current transformers in the circuit breaker.

3. Overcurrent releases of the VL150 UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers

For parameterizing, the electronic overcurrent release must be activated. A load current amounting to at least 20% of the relevant molded case circuit breaker's rated current I_n is needed to do this. If this load current is not available, the necessary auxiliary energy can be supplied via a battery power supply. In the case of molded case circuit breakers that are connected to an active COM20 (PROFIBUS) or COM21 (Modbus) communication module (Release 2) for data transmission, the release is powered via the module.

Abbreviations (functions)		
L	= Long Time Delay	= Overload protection
S	= Short Time Delay	= Short-circuit protection (short-time delayed)
I	= Instantaneous	= Short-circuit protection (instantaneous)
N	= Neutral Protection	= Neutral conductor protection
G	= Ground Fault	= Ground-fault protection

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

VL150 UL (DG frame) to VL1600 UL (PG frame) overcurrent releases – functional overview

Article No. supplement	Release/model	Line protection	Starter protection	Generator protection	Function	Setting options				
						L ¹⁾	S ¹⁾	I ¹⁾	G ¹⁾	
						Overload protection	Short-circuit protection (short-time delayed)	Short-circuit protection (instantaneous)	Ground-fault protection	
						$I_r = \times I_n$	$I_{sd} = \times I_r$	t_{sd} [s]	$I_i = \times I_n$	$I_g = \times I_n$
KJ	M	--	✓	--	I	--	--	--	3 ... 6	--
KK	M	--	✓	--	I	--	--	--	4 ... 10	--
KL	M	--	✓	--	I	--	--	--	7 ... 16	--
KN	TM/525	✓	--	--	LI	1	--	--	5 ... 10	--
PB	ETU/555	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--
PD	ETU/555	✓	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.4 ... 1 ³⁾
PU	ETU/555	✓	--	✓	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--
PH	ETU/555	✓	--	✓	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ³⁾
VH	LCD-ETU/586	✓	--	--	LI, LSI	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	--
VM	LCD-ETU/586	✓	--	--	LSIG	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ²⁾
VJ	LCD-ETU/586	✓	--	--	LSI G (alarm)	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ²⁾

Article No. supplement	Release/model	Thermal image	Communication-capable	Ground-fault protection	Number of poles	I^2t (ON/OFF)	Time-lag class (t_R)	Thermal-magnetic releases	Magnetic releases	Electronic release	LCD display
KJ	M	--	--	--	3	--	--	--	✓	--	--
KK	M	--	--	--	3	--	--	--	✓	--	--
KL	M	--	--	--	3	--	--	--	✓	--	--
KN	TM/525	✓	--	--	3	--	--	✓	--	--	--
PB	ETU/555	✓	✓	--	3	--	2.5 ... 30	--	--	✓	--
PD	ETU/555	✓	✓	①	3	--	2.5 ... 30	--	--	✓	--
PU	ETU/555	✓	✓	--	3	✓	--	--	--	✓	--
PH	ETU/555	✓	✓	①	3	✓	--	--	--	✓	--
VH	LCD-ETU/586	✓	✓	--	3	✓	2.5 ... 30	--	--	✓	✓
VM	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓
VJ	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓

Ground-fault protection

- ① Vectorial summation current formation (4-wire system)
 ② Direct detection of ground-fault current in the neutral point of the transformer

1) Size dependent.

2) t_g 0.1 s to 0.5 s.

3) t_g 0.07 s to 0.4 s size-dependent

Internal accessories (auxiliary switches, undervoltage releases, shunt releases)

3VL molded case circuit breakers according to UL can be supplied completely equipped with internal accessories (e.g. auxiliary switches, undervoltage releases or shunt releases). Refer to the tables of Article No. supplements for details of possible versions.

Fixed-mounted, plug-in or withdrawable version

The fixed-mounted molded case circuit breaker is the basic version. Using the appropriate assembly kit, it can be changed to a plug-in or withdrawable version. This assembly kit contains blade contacts, a locking pin and terminal covers for the plug-in version. The assembly kit for the withdrawable version additionally includes side panels and a racking mechanism. Even when the masking frame is fitted, movement using the withdrawable unit's handle is possible while the door is closed.

Operating mechanisms

In the basic version, the 3VL molded case circuit breakers according to UL have a toggle lever as an operating mechanism. This also functions as an indicator of the switch position. The "Tripped" position is also displayed in addition to the "ON" and "OFF" positions.

The toggle lever goes to the "Tripped" position when the internal tripping mechanism is activated by overcurrent tripping, e.g. on overload or short circuit. Activation of an undervoltage release or shunt release will also cause the toggle lever to move to the "Tripped" position. The toggle lever must be moved to the "OFF/RESET" position before the molded case circuit breaker can be closed again. This enables reset of the internal tripping mechanism and reactivation of the molded case circuit breaker's main contacts (see figure).

A toggle lever extension is supplied with the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers. For the VL400 UL (JG frame) to VL800 UL (MG frame) molded case circuit breakers, this accessory must be ordered separately if required.

Front-operated rotary operating mechanisms

These operating mechanisms are designed for direct attachment to 3VL molded case circuit breakers according to UL and convert movement of the toggle lever from a linear to a rotary movement.

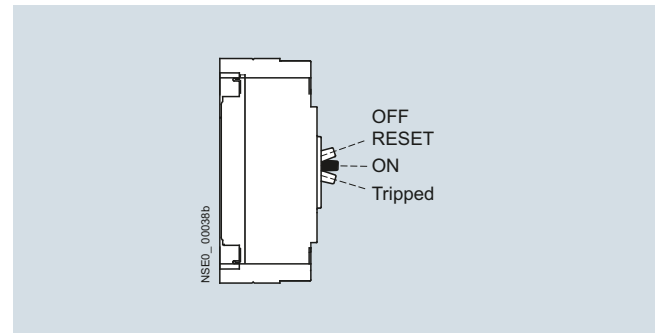
For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

Door-coupling rotary operating mechanisms (complete operating mechanisms)

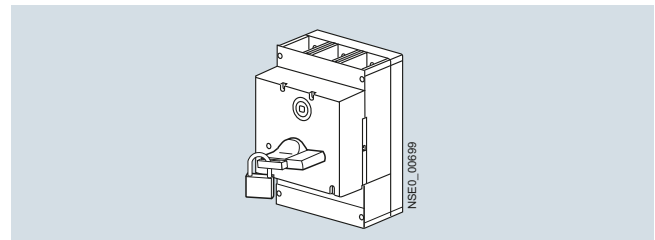
When the molded case circuit breakers are installed in control cabinets and distribution boards, door-coupling rotary operating mechanisms are available for doors and removable covers. These operating mechanisms are supplied as complete assembly kits, including an articulated-shaft mechanism.

With regard to switch positions and the "RESET" position, the same applies to rotary operating mechanisms as to toggle lever operating mechanisms. Indication is by the position of the operator lever (knob).

All 3VL molded case circuit breakers according to UL that feature these rotary operating mechanisms and corresponding terminal covers can be used as main disconnecting means.



Toggle lever operating mechanism positions



Rotary operating mechanism locked with padlock

Motorized operating mechanisms

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers can be equipped with motorized operating mechanisms for operational remote closing and opening.

The motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) molded case circuit breakers have a spring energy store (for synchronization) with a maximum ON period of $t_{\text{e}} \leq 80$ ms.

Motorized operating mechanisms without spring energy store for remotely controlled ON and OFF switching are available for the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

All motorized operating mechanisms are always supplied with a locking device for padlocks. Moreover, optional safety locks for motorized operating mechanisms with stored energy mechanism are also available.

The locking devices can be used for electrical and mechanical blocking of the operating mechanism. All remote operating mechanisms are equipped with a manual operating possibility for maintenance purposes.

Optionally, the motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) and also the motorized operating mechanisms for VL1200 UL (NG frame) and VL1600 UL (PG frame) are each internally equipped with a floating signaling contact (normally open) for the following functions:

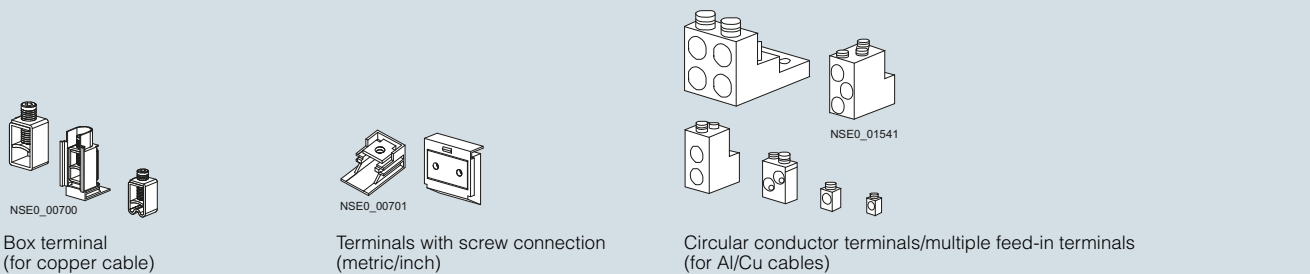
- Querying the AUTO/Manual selector switch for VL150X UL (CG frame) to VL800 UL (MG frame)
- Operating the mechanical OFF/0 button

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Main connections, basic equipment and options



Main connections

Molded case circuit breakers	Connection overview and further options						
	Box terminals Cu only	Screw terminals for flat connection		Circular conductor terminal/ multiple feed-in terminal Cu or Al	Rear connections	Cable lug connection	Direct connection of bars possible (IEC-approved circuit breakers only)
		with metric thread	with inch thread				
VL150X UL (CG frame)	x	x	--	x	x	--	--
VL150 UL (DG frame)	x	x	x	x	x	x	--
VL250 UL (FG frame)	x	x	x	x	x	x	--
VL400 UL (JG frame)	x	x	--	x ^{1) 2)}	x	x	--
VL400X UL (LG frame)	--	x	x	x ^{1) 2)}	x	x	--
VL800 UL (MG frame)	--	x	x	x ¹⁾	x	x	--
VL1200 UL (NG frame)	--	x	x	x ¹⁾	x	x	--
VL1600 UL (PG frame)	--	x	x	x ¹⁾	x	--	--

x Available

-- Not available

¹⁾ Multiple feed-in terminals

²⁾ Circular conductor terminal also available.

Note

For conductor cross-sections, see [operating instructions](#).

Auxiliary releases and auxiliary switches

Undervoltage releases, leading auxiliary switches

If there is no voltage present, closing of the molded case circuit breaker is not possible. When no voltage is applied to the release, operating the circuit breaker leads to no-load switching.

Frequent no-load switching should be avoided to prevent shortening the molded case circuit breaker's useful life.

For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

In the case of 3VL molded case circuit breakers according to UL, the leading auxiliary switch can be supplied together with the front-operated rotary operating mechanisms and complete operating mechanisms. For further information, see ["Selection and ordering data" for accessories](#).

Shunt releases

Shunt releases are used to remotely trip the molded case circuit breaker.

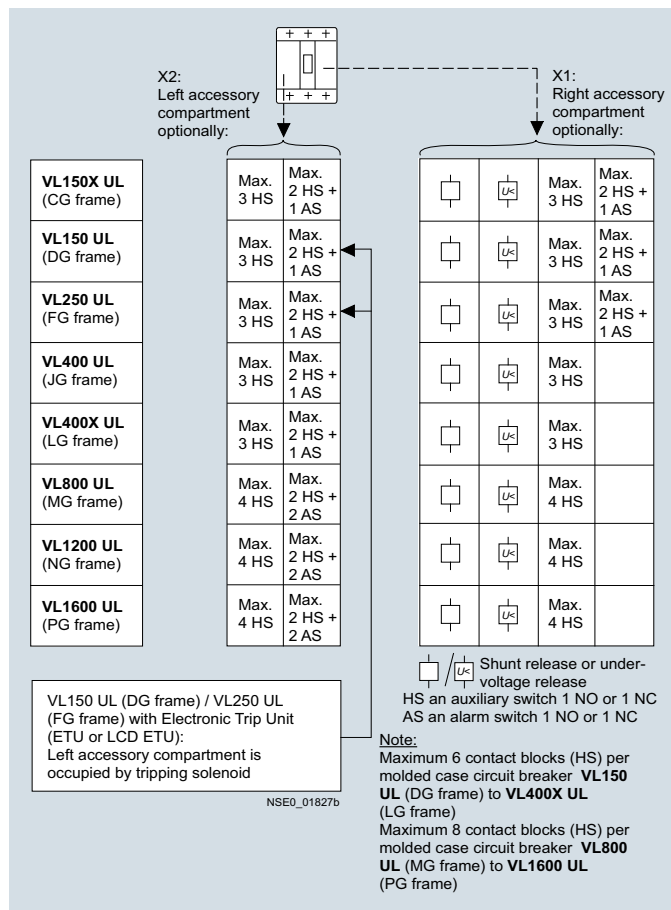
The shunt release's coil is designed for short-time operation. Coil deactivation is installed internally.

When a molded case circuit breaker is open, it is not permitted to apply a continuous opening command to the shunt release to prevent closing.

A center tap is available as standard to test the coil for continuity.

Note

Before ordering, use the graphic on the right to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.



Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL

Auxiliary switches

Auxiliary switches (HS) are used for signaling and controlling. The contacts of the auxiliary switch open and close along with the main contacts.

Alarm switches

Alarm switches (AS) operate when the molded case circuit breaker has been tripped due to an overcurrent situation, e.g. an overload or short circuit. However, they are also activated when the molded case circuit breaker has been tripped by a shunt release or an undervoltage release.

Installation of internal accessories

The insulated accessory compartments in the molded case circuit breakers for installation of internal accessories (auxiliary releases and auxiliary/alarm switches) are designated X1, X2 and X4.

Equipment of the molded case circuit breaker with internal accessories and the possibility of combination with auxiliary releases and auxiliary/alarm switches depend on the installation position and frame size of the molded case circuit breaker (see figure entitled "Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL").

PLC control

The auxiliary and alarm switches are suitable for PLC control. These switching elements are from the Siemens 3SB3 program.

Leading auxiliary switches

The leading auxiliary switches from OFF to ON or from ON to OFF are available as retrofit kits and for Max Flex operating mechanisms.

Function**Current limiting¹⁾**

3VL molded case circuit breakers according to UL are designed on the principle of magnetic repulsion of the contacts. The contacts open before the expected peak value of the short-circuit current is reached. The current-limiting effects of the 3VL molded case circuit breakers according to UL protect the system components effectively against thermal and dynamic effects of the short-circuit current in the event of an electrical fault.

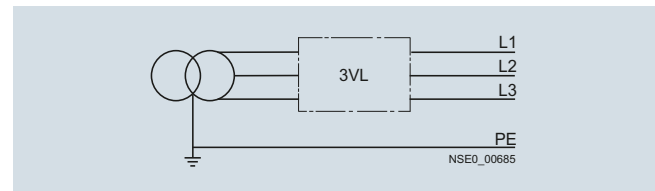
Ground-fault protection

The ground-fault release "G" captures fault currents escaping to ground that can cause fires in the plant. Several molded case circuit breakers connected in series can be assigned graduated discrimination by means of the adjustable delay time.

The following measurement methods can be used to detect neutral conductor and ground-fault currents:

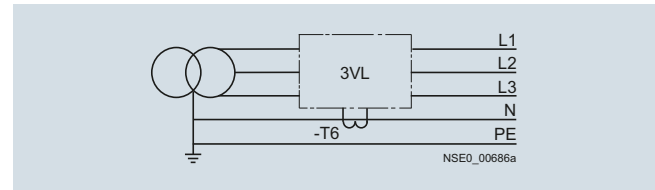
Vectorial summation current formation (measurement method 1)Ground-fault detection in balanced systems

The three phase currents are evaluated using vectorial summation current formation.

Ground-fault detection in unbalanced systems

The neutral conductor current is measured directly and, in the case of the 3-pole circuit breakers, is only evaluated for ground-fault protection.

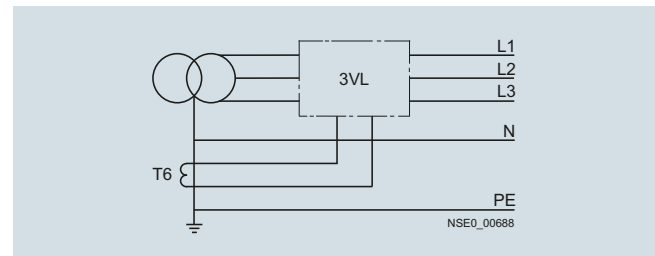
The overcurrent release calculates the ground-fault current using the vectorial summation of the three phase currents and the neutral conductor current.



3-pole molded case circuit breaker, current transformer in neutral conductor

Direct detection of the ground-fault current via a current transformer at the grounded star point of the transformer (measurement method 2)

The current transformer is installed directly at the grounded neutral point of the transformer.



3-pole molded case circuit breaker, current transformer at the grounded star point of the transformer

Transformer protection

The 3VL molded case circuit breakers according to UL protect power distribution systems in the event of overload and short circuit as from the low-voltage side of the infeed transformer. The resulting requirements for current and/or time-based discrimination are fulfilled reliably by 3VL molded case circuit breakers according to UL for line protection – equipped with thermal-magnetic (TM) or electronic trip units (ETU or LCD ETU).

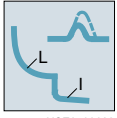
¹⁾ Not current-limiting in terms of "Current limiting according to UL 489".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

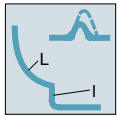
Thermal-magnetic releases (TM)



NSE0_00689

Application: line protection –
TM, LI/LIN function

Overload protection, fixed,
short-circuit protection, fixed,
see "Selection and ordering data" for
VL150X UL (CG frame),
integrated releases in the circuit breaker enclosure;
KM version.



I201_19069

Application: line protection –
TM/model 525, LI/LIN function

Overload protection, fixed,
short-circuit protection, adjustable
 $I_i = 5$ to $10 \times I_n^{(1)}$, for VL150 UL (DG frame)
to VL1600 UL (PG frame);

KN version



NSE0_00707

Application: starter protection –
M, I function

Short-circuit protection, adjustable
 $I_i = 3$ to $16 \times I_n^{(1)}$, for VL150 UL (DG frame) to
VL1200 UL (NG frame);

KJ, KK, KL versions.

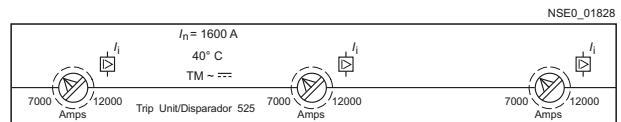


NSE0_00708

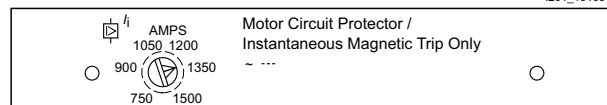
Application: switch disconnectors in molded case
circuit breaker design – M, I function (for intrinsic
protection)

Short-circuit protection, fixed

KE version



NSE0_01828



I201_19109

¹⁾ Size-dependent, see "Selection and ordering data".

Electronic Trip Units (ETU)

For types
VL150 UL
(DG frame)
to
VL1600 UL
(PG frame)

General information:

- No auxiliary voltage required for release system
- All ETUs have a thermal image
- A flashing green LED indicates correct operation of the microprocessor

- Overload status ($I > 1.05 \times I_r$) is indicated by a permanently lit yellow LED (alarm)
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



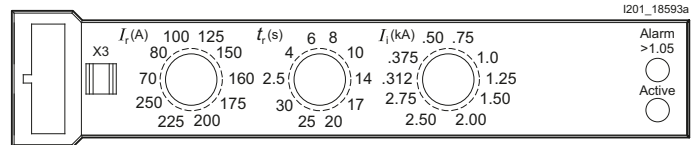
NSE0_00691

Application: line protection – model 555, LI function

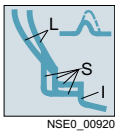
Overload protection $I_r = 0.28$ to $1 \times I_n^{(1)}$,
time-lag class $t_r = 2.5$ to 30

Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$;

PB version



I201_18593a



NSE0_00692

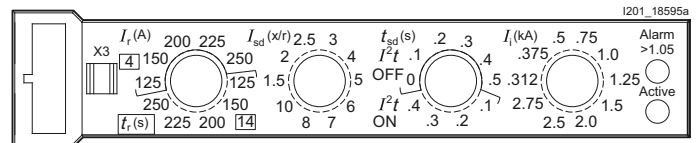
Application: line and generator protection – model 555, LSI function

Overload protection $I_r = 0.4$ to $1 \times I_n^{(1)}$,

Short-circuit protection (short-time delay)
 $I_{sd} = 1.5$ to $10 \times I_r^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$ (fixed)¹⁾

PE version



I201_18594a



NSE0_00693

Application: line protection – model 555, LIG function

Overload protection $I_r = 0.28$ to $1 \times I_n^{(1)}$,
time-lag class $t_r = 2.5$ to 30

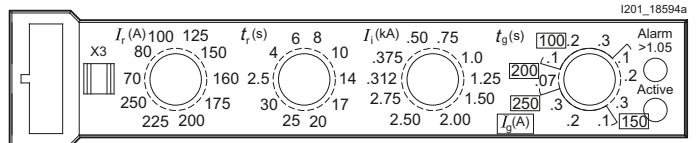
Short-circuit protection (short-time delay)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: Measurement method
No. 1:

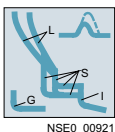
(G_R) vectorial summation current formation of
the currents in the three phases and the neutral
conductor

(4-wire systems); $I_g = 0.4$ to $1 \times I_n^{(1)}$

PD version



I201_18594a



NSE0_00692

Application: line and generator protection – model 555, LSIG function

Overload protection $I_r = 0.4$ to $1 \times I_n^{(1)}$,

Short-circuit protection (short-time delay)
 $I_{sd} = 1.5$ to $10 \times I_r^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

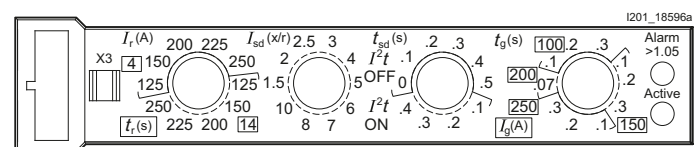
Short-circuit protection (short-time delay)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: Measurement
method No. 1:

(G_R) vectorial summation current formation of
the currents in the three phases and the neu-
tral conductor

(4-wire systems); $I_g = 0.4$ to $1 \times I_n^{(1)}$

PH version



I201_18596a

¹⁾ Size-dependent, see "Selection and ordering data".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

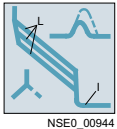
General data

Electronic Trip Units with LCD (LCD ETU)

General information:

- No auxiliary voltage required for release system
- Current display
- An illuminated green LCD display indicates correct operation of the microprocessor
- Overload status ($I > 105\% I_r$) is indicated by "Overload" on the LCD display

- Direct, user-friendly, menu-driven setting of the absolute values of the protection parameters in the ampere values via keys
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



Application: line protection – model 586, LSI function

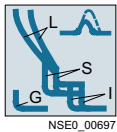
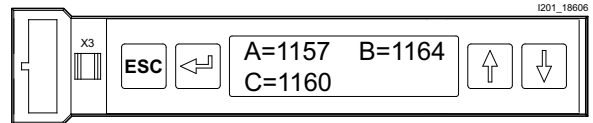
Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

Short-circuit protection (short-time delay)
 $I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (short-time delay)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

VH version



Application: line protection – model 586, LSI G function

Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

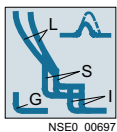
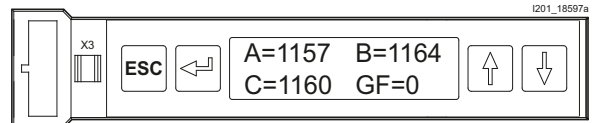
Short-circuit protection (short-time delay)
 $I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (short-time delay)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: measurement method No. 1:
(G_R) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems);
 $I_g = 0.4$ to $1 \times I_n^{(1)}$.

Measurement method No. 2:
(G_{GND}) direct measurement of the ground-fault current using a current transformer, $I_g = 0.4$ to $1 \times I_n$,
 $t_g = 0.1$ to 0.5 s.

VM version



Application: line protection – model 586, LSI G (alarm) function

Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

Short-circuit protection (short-time delay)
 $I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (short-time delay)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

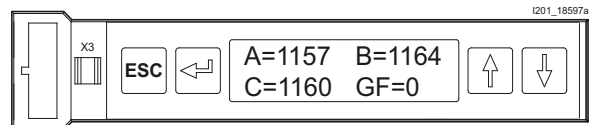
Ground-fault protection:

Measurement method No. 1:
(G_R) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems);
 $I_g = 0.4$ to $1 \times I_n^{(1)}$.

Measurement method No. 2:
(G_{GND}) direct measurement of the ground-fault current using a current transformer, $I_g = 0.4$ to $1 \times I_n$,
 $t_g = 0.1$ to 0.5 s.

If a ground fault is detected, the LCD ETU only issues an alarm, without tripping the circuit breaker. This alarm is displayed direct on the display and/or is communicated to higher-level systems via PROFIBUS DP/Modbus RTU.

VJ version



¹⁾ Size-dependent, see "Selection and ordering data".

Configuration

Communication

All 3VL molded case circuit breakers according to UL 489 with electronic trip unit (ETU) are communication-capable. To this end, the molded case circuit breaker's ETU is connected to a COM20 or COM21 communication module by means of a cable. The COM20 module (Release 2) supports the PROFIBUS DP protocol, while the COM21 module (Release 2) enables data transfer via Modbus RTU.

A communication kit – COMKIT 3 to 8 – is needed to connect the 3VL molded case circuit breaker (see page 2/285).

The COMKITs consist of a connecting cable including a protective cover and also one alarm and auxiliary switch each for installation in the molded case circuit breaker.¹⁾ These are also connected to the electronic trip unit and signal the ON/OFF/TRIPPED circuit breaker status to the electronic trip unit.

The communication modules enable activation and deactivation of an optional motorized operating mechanism.

	Data transmission through COM20/COM21 (Release 2)
Data transferred	
Commands	
Closing or opening	✓
Deleting alarm and tripping operation buffer and also maintenance information	✓
Operating states²⁾	
ON or OFF status trip position	✓
Event messages	
Tripped messages with tripping current	✓
Alarms (e.g. overload, phase unbalance current, etc.)	✓
Threshold violation (e.g. phase currents)	✓
Measured values	
Phase currents and neutral conductor current	✓
Parameter values	
Reading and writing	✓
Maintenance information	
(e.g. number of trips, number of switching operations)	✓
Data for device identification	
	✓
Clock synchronization	
	✓

✓ Available

Function	COM20/21 (Release 2) module with overcurrent release version	
	ETU	LCD ETU
Functions of communication components		
Transfer of the operating state (ON, OFF, tripped, warnings, tripped causes, event log, etc.) to the PROFIBUS	✓	✓
Display of measured values (current only) and parameters in the release, modifying parameters via the display	--	✓ ³⁾
Transferring the maximum value of the actual current in %	✓	✓
Transferring the individual current phase currents	✓	✓
Transferring PROFIBUS identification data	✓	✓
Reading protection parameters via PROFIBUS/Modbus	✓	✓
Reading and setting protection parameters via PROFIBUS/Modbus	--	✓

✓ Function available.

Function can optionally be adopted by several trip units.

-- Function not available

¹⁾ Only an alarm switch is included with the COMKITs 3 and 6 because the auxiliary switch in the case of DG and FG frame sizes of the 3VL molded case circuit breakers is already included in the magnetic release (Maglatch).

²⁾ Only in the case of built-in auxiliary switches connected to COM20/21 (Release 2)

³⁾ COM20/21 not required

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Switching direct current

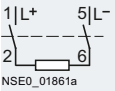
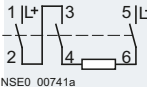
The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers for line protection with thermal-magnetic trip units, for starter combinations, and for non-automatic air circuit breaker versions are also suitable for switching and protecting direct current.

The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications, however.

Series connection of 2 to 3 conducting paths is required for voltages in excess of 250 V in the case of VL150 UL (DG frame) to VL1600 UL (PG frame).

The following circuits are recommended since the current must flow through all conducting paths in order to conform to the thermal tripping characteristic curves.

The threshold values of the instantaneous short-circuit trip units ("I" trip units) increase by 30 to 40%.

Recommended circuit/maximum permitted DC voltage U_e		Remarks
Circuit A	Circuit B	
For 3-pole molded case circuit breakers		
250 V DC 	500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC) 	2-pole switching (ungrounded system)

Technical specifications

Type	VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
Max. rated current I_n	A 150	150	250	400	600	800	1200	1600	
Rated insulation voltage U_i, only in accordance with IEC 60947-2									
Main conducting paths	AC	V 800							
Auxiliary circuits	AC	V 690							
Rated operational voltage U_e									
NEMA 50/60 Hz	AC	V 600							
	DC ¹⁾	V 250	2)						
IEC 50/60 Hz	AC	V 690							
Utilization category	A								
Permissible ambient temperature									
Operation: 0 °C ... +70 °C for devices with TM release (cf. IEC system manual)	°C	-25 ... +70							
Storage	°C	-40 ... +80							
Permissible load at different ambient temperatures									
Directly next to the molded case circuit breaker, referred to the molded case circuit breaker's rated current									
• Molded case circuit breaker for line protection	TM/ETU	Up to 40 °C	% 100	100/100				100/100	100/100
	TM/ETU	At 50 °C	% 93	93/100				94/100	92/100
	TM/ETU	At 60 °C	% 86	86/95				88/95	83/95
	TM/ETU	At 70 °C	% 79	79/80				82/80	75/80
• Molded case circuit breaker for starter combinations and non-automatic air circuit breakers		Up to 40 °C	% 100						
		At 50 °C	% 100						
		At 60 °C	% 93						
		At 70 °C	% 86						
Weight data of 3-pole molded case circuit breakers									
Basic circuit breaker									
• With thermal-magnetic release	kg	2.5	2.2	2.3	5.7	9.0	14.0	21.8	32.8
• With electronic trip unit	kg	–	2.4	2.5	5.9	9.3	16.0	25.0	31.3
Rated short-circuit breaking capacity	For rated short-circuit breaking capacity, see under "Overview" in table.								

¹⁾ DC rated data applies to thermal-magnetic releases only.

²⁾ 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

2

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame
Endurance	Switching cycles	20000				10000		3000	
Electrical endurance	Switching cycles	10000				5000	3000	1500	
Max. switching frequency	1/h	120				60	30		
Connection types		See "Main connections, basic equipment and options"							
Connection cross-sections for stranded cables									
Box terminal (Cu)	AWG/kcmil mm ²	1 x (14 ... 1/0) 1 x (2.5 ... 50)	1 x (8 ... 1/0) 1 x (10 ... 50)	1 x (3 ... 250) 1 x (35 ... 120)	1 x (1/0 ... 600) 1 x (70 ... 300)	--	--	--	--
Circular conductor terminal (Cu/Al)	AWG/kcmil mm ²	1 x (6 ... 3/0)		1 x (4 ... 350)	1 x Cu: 3/0 ... 600 Al: 250 ... 750	--	--	--	--
Circular conductor terminal with terminal cover (Cu/Al)	AWG/kcmil mm ²	--	1 x (6 ... 300) 1 x (16 ... 150)	--	1 x Cu: 95 ... 300 Al: 150 ... 300	--	--	--	--
Multiple feed-in terminal (Cu/Al)	AWG/kcmil	--	--	--	2 x (3/0 ... 250)	2 x (2 ... 600)	2 x (500 ... 750)	--	--
	mm ²	--	--	--	2 x (95 ... 120)	2 x (35 ... 300)	2 x 300	--	--
Multiple feed-in terminal with terminal cover	AWG/kcmil	--	--	--	--	--	3 x (1/0 ... 500)	3 x (500 ... 750)	--
	mm ²	--	--	--	--	--	3 x (70 ... 240)	3 x 300	--
Multiple feed-in terminal with terminal cover	AWG/kcmil	--	--	--	--	--	--	4 x (1/0 ... 500)	--
	mm ²	--	--	--	--	--	--	4 x (70 ... 240)	--
Multiple feed-in terminal with terminal cover	AWG/kcmil	--	--	--	--	--	--	--	4 x (600 ... 750)
	mm ²	--	--	--	--	--	--	--	4 x 300
Direct connection of busbars (Cu/Al, for IEC only)	mm	17 x 7	22 x 7	24 x 7	32 x 10	32 x 10	2 x 40 x 10	2 x 50 x 10	3 x 60 x 10
Screw for connection with screw terminal, metric	M 6	M 6		M 8	M 10		M 8		
	inch	--	10-32 UNF	5/16	--	3/8	5/16		
Power losses per molded case circuit breaker at max. rated current									
Line protection	TM	W 17 ... 36	15 ... 48	32 ... 80	60 ... 175	85 ... 230	194 ... 269	150 ... 204	204 ... 329
Line protection	ETU or LCD ETU	W --	6 ... 40	11 ... 60	38 ... 90	71 ... 160	140 ... 250	93 ... 210	146 ... 260
For starter combinations or non-automatic air circuit breakers	W	36	40	60	90	160	250	210	260
Permissible mounting position¹⁾									

¹⁾ For VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers with withdrawable unit frame in lateral installation position. Adapter set on request.

²⁾ Permissible current load factor 0.9; with internal accessories only.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
Auxiliary switches and alarm switches										
Conventional free-air thermal current I_{th}	A	10								
Rated making capacity	A	10								
AC										
Rated operational voltage	V	24	48	110	230	400	600	--		
Rated operating current	AC-12 A	10								
	AC-15 A	6						3	1	--
DC										
Rated operational voltage	V	24								
Rated operating current	DC-12 A	10								
	DC-13 A	3		1.5	0.7	0.3	--			
Back-up fuse/miniature circuit breaker	A	10 TDz/10								
Leading auxiliary switch in rotary mechanism										
Rated thermal current I_{th}	A	2								
Rated making capacity	A	2 (ind. 0.5)								
Rated operational voltage	V AC	230								
Rated operating current	A	2								
Rated breaking capacity, inductive, p.f. = 0.7	A	0.5								
Rated breaking capacity	A	2								
Quick-response short-circuit fuse	A	2								
Position signaling switches										
Rated thermal current I_{th}	A	16		--						
Rated making capacity	A	16	10	--						
Rated operational voltage	V AC	250		400						
Rated operating current	A	16	10	--						
Rated breaking capacity, inductive, p.f. = 0.7	A	4		--						
Rated breaking capacity	A	16	10	--						
Quick-response short-circuit fuse	A	16	10	--						
Releases										
		Family 1: VL150X UL (CG frame) to VL400X UL (LG frame)					Family 2: VL800 UL (MG frame) to VL1600 UL (PG frame)			
Undervoltage releases										
Response voltage:										
• Release (circuit breaker trips)	V	0.35 ... 0.70 × U_s					0.35 ... 0.70 × U_s			
• Pick-up (circuit breaker can be switched on)	V	0.85 ... 1.1 × U_s					0.85 ... 1.1 × U_s			
Power consumption (continuous operation) at:										
• 24 V AC 50/60 Hz ¹⁾	VA	1.4					--			
• 110 ... 127 V AC 50/60 Hz	VA	1.0					1.8			
• 220 ... 250 V AC 50/60 Hz	VA	1.0					1.8			
• 208 V AC 50/60 Hz	VA	1.0					1.8			
• 277 V AC 50/60 Hz	VA	1.0					1.8			
• 380 ... 415 V AC 50/60 Hz	VA	1.0					1.8			
• 440 ... 480 V AC 50/60 Hz	VA	1.0					1.8			
• 500 ... 525 V AC 50/60 Hz	VA	1.0					--			
• 12 V DC	W	0.8					1.5			
• 24 V DC	W	0.8					1.5			
• 48 V DC	W	0.8					1.5			
• 60 V DC	W	0.8					1.5			
• 110 ... 127 V DC	W	0.8					1.5			
• 220 ... 250 V DC	W	0.8					1.5			
Max. opening time	ms	50 ²⁾					80			
Shunt releases										
Response voltage:										
Pick-up (switch tripped)	V	U_s					U_s			
		0.7 ... 1.1					0.7 ... 1.1			
Power consumption (short-time) at:										
• 24 V AC 50/60 Hz	VA	310					330			
• 48 ... 60 V AC 50/60 Hz	VA	335 ... 465					380 ... 460			
• 110 ... 127 V AC 50/60 Hz	VA	470 ... 630					330 ... 430			
• 208 ... 277 V AC 50/60 Hz	VA	585 ... 1000					520 ... 800			
• 380 ... 600 V AC 50/60 Hz	VA	180 ... 500					228 ... 750			
• 24 V DC	W	360					385			
• 48 ... 60 V DC	W	380 ... 590					480 ... 720			
• 110 ... 127 V DC	W	506 ... 680					362 ... 424			
• 220 ... 250 V DC	W	470 ... 580					418 ... 476			
Max. opening time	ms	50					50			
Max. in-service period	s	interrupts automatically, less than 10 ms					interrupts automatically, less than 10 ms			

¹⁾ On request.

²⁾ 3VL9400-1UP01: 15 ms

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

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Type	VL150X UL		VL150 UL	VL250 UL	VL400 UL	VL400X UL	VL800 UL	VL1200 UL	VL1600 UL		
	CG frame	DG frame	FG frame	JG frame	LG frame	MG frame	NG frame	PG frame			
Motorized operating mechanisms	--							x			
Motorized operating mechanism with spring energy store (synchronizable)	x								--		
Motorized operating mechanism											
Power consumption	VA/W	--							< 250		
Rated control supply voltage U_s	50/60Hz V AC	--						42 ... 48/60	110 ... 127/220 ... 250		
	V DC	--						24 / 42 ... 48/60	110 ... 127/220 ... 250		
Fusible link (operational class gG, slow-blow characteristic)	A	--						4	2		
Miniature circuit breakers	A	--						4	2		
Primary operating range	V	--							0.85 ... 1.1 × U_s		
Min. command duration U_s	ms	--							50		
Max. command duration, connection-dependent ¹⁾	Jog/pushbutton or continuous command				--		Jog/pushbutton or continuous command				
Total make-time	s	--							<5		
Break-time	s	--							<5		
Interval between the commands OFF and ON	s	--							>5		
Interval between the commands ON and OFF	s	--							>5		
Max. permissible switching frequency	1/h	--							30		
Motorized operating mechanism with spring energy store (synchronizable)											
Power consumption	VA/W	< 100			< 200		< 250		--		
Rated control supply voltage U_s	50/60Hz V AC	42 ... 48 / 60			110 ... 127 / 220 ... 250			--			
	V DC	24 / 42 ... 48 / 60			110 ... 127 / 220 ... 250			--			
Fusible link (operational class gG, slow-blow characteristic)	A	4			2		--				
Miniature circuit breakers	A	4			2		--				
Primary operating range	V	0.85 ... 1.1 × U_s									
Min. command duration U_s	ms	50									
Max. command duration, connection-dependent ¹⁾	Jog/pushbutton or continuous command										
Total make-time	ms	< 100									
Break-time	s	<5									
Interval between the commands OFF and ON	s	>5									
Interval between the commands ON and OFF	s	> 1									
Max. permissible switching frequency	1/h	120			60		--				

x Available

-- Not available

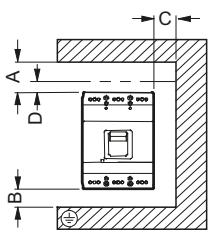
¹⁾ Changeover contact also permissible, but note the interval times between ON and OFF.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Space requirement above arc chutes, safety clearance (applicable to IEC application)



Arcing spaces

Minimum clearances from adjacent grounded parts and non-insulated live parts.

Inside the arcing space, bare conductors and bars must be insulated with phase barriers.

For bare conductors and bars outside the arcing space, the specific mounting instructions for the different frame sizes must be observed.

For mounting instructions, see www.siemens.com/lowvoltage/product-support

Space requirement above arcing spaces according to IEC 60947-2

Molded case circuit breakers	Breaking capacity	Minimum enclosure volume m ³	A			B	C	D
			≤ 415 V without/with terminal cover	> 415 ... 690 V without terminal cover	> 415 ... 690 V with terminal cover	≤ 690 V	≤ 690 V	≤ 690 V
Type								
VL150X UL (CG frame)	Standard High Very high	0.011	35	70	35	25	25	35
VL150 UL (DG frame)	Standard High Very high	0.011	50	100	50	25	25	35
VL250 UL (FG frame)	Standard High Very high	0.015	50	100	50	25	25	35
VL400 UL (JG frame)	Standard High Very high	0.036	50	100	50	25	25	35
VL400X UL (LG frame)	Standard High Very high	0.18	50	100	50	25	25	35
VL800 UL (MG frame)	Standard High Very high	0.22	50	100	50	25	25	35
VL1200 UL (NG frame)	Standard High Very high	0.22	70	100	70	30	30	50
VL1600 UL (PG frame)	Standard High Very high	0.264	100	100	100	100	30	100

Definition of permissible safety clearances

Clearance between

- A: molded case circuit breaker and busbars (uninsulated and grounded metal); terminal cover required above 600 V AC, 500 V DC
- B: molded case circuit breaker terminal and lower panel
- C: side of the molded case circuit breaker and side panels (uninsulated and grounded metal)
- D: molded case circuit breaker and non-conductive parts with at least 3 mm thick insulation (insulator, insulated bar, painted plate)