

# Molded Case Circuit Breakers



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**3VL molded case circuit breakers up to 1600 A, IEC**

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**3KC ATC5300 transfer control devices****For further technical product information:**Service & Support Portal[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)→ Product List:  
Technical specifications→ Entry List:  
Certificates / Characteristics /  
Download / FAQ / Manuals /  
Updates





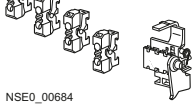
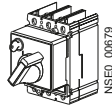
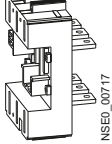
# Molded Case Circuit Breakers

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

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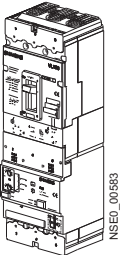

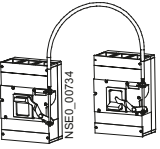


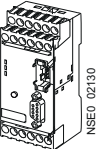
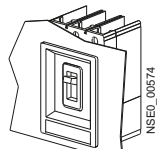
### Introduction

#### Overview

Devices	Page	Applications/ Individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p><b>3VL molded case circuit breakers for system protection</b></p> <p><b>3VL molded case circuit breakers for generator protection</b></p>	2/12 ... 2/27, 2/36 ... 2/53	<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><b>3VL molded case circuit breakers for motor protection</b></p>	2/28 ... 2/31	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.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p><b>3VL molded case circuit breakers for starter protection</b></p>	2/32, 2/33	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.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p><b>3VL non-automatic circuit breakers, molded case</b></p>	2/32, 2/33, 2/54, 2/55	These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.  Isolating features according to IEC 60947-2 and EN 60947-2.	✓	✓	✓
 <p><b>Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers</b></p> <p>NSE0_00684</p>	2/61, 2/62	Auxiliary switches, alarm switches, undervoltage releases and shunt releases	As for circuit breakers	✓	✓	✓
 <p><b>Operating mechanisms</b></p> <p>NSE0_00679</p>	2/64 ... 2/71	<p>The manual operating mechanisms are available in two versions:</p> <ul style="list-style-type: none"> <li>• Front-operated rotary operating mechanisms,</li> <li>• Door-coupling rotary operating mechanisms</li> </ul> <p>In the case of the motorized operating mechanisms there are also two versions:</p> <ul style="list-style-type: none"> <li>• MO for standard applications</li> <li>• SEO for network synchronization tasks</li> </ul>	As for circuit breakers	✓	✓	✓
 <p><b>Plug-in versions/withdrawable versions</b></p> <p>NSE0_00717</p>	2/72 ... 2/77	Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.	As for circuit breakers	✓	✓	✓

# Molded Case Circuit Breakers

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

Devices	Page	Applications/ Individual components	Standards	Used in			
				Non-residential buildings	Residential buildings	Industry	
 <p>NSE0_001853</p>	<b>RCD modules</b>	2/78	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	As for circuit breakers	✓	✓	✓
 <p>NSE0_00702</p>	<b>Connection parts for fixed-mounted circuit breakers</b>	2/79 ... 2/84	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	✓	✓	✓
 <p>NSE0_00734</p>	<b>Interlocks</b>	2/85 ... 2/90	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden wire interlocking	As for circuit breakers	✓	✓	✓
	<b>3KC ATC5300 transfer control devices</b>	Ch. 12	The transfer control device, equipped with two motor-driven circuit breakers, serves 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	✓	✓	✓
	<b>40 mm busbar systems and 60 mm busbar systems</b>	Ch. 10	Busbar adapters	As for circuit breakers	✓	✓	✓
 <p>NSE0_02130</p>	<b>Accessories for communication</b>	2/93	Data transmission through COM20, COM21: COM20 (PROFIBUS) for releases with communication function, COM21 (MODBUS) for releases with communication function, powerconfig parameterization software	As for circuit breakers	✓	✓	✓
 <p>NSE0_00574</p>	<b>Further accessories</b>	2/94 ... 2/97	Masking frames (cover frames) for door cutouts, to increase degree of protection	As for circuit breakers	✓	✓	✓

# Molded Case Circuit Breakers

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

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### Introduction



Type		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4			
<b>Molded case circuit breakers</b>								
<b>3VL molded case circuit breakers up to 1600 A</b>								
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			
Rated operational voltage $U_e$ 50/60 Hz AC DC <sup>1)</sup>	V	690	690	690	690			
	V	500	500 <sup>2)</sup>	600	600			
<b>Overcurrent releases</b>								
Thermal-magnetic		✓	✓	✓	✓			
Electronic LCD ETU/ETU		--	✓	✓	✓			
PROFIBUS module COM20		--	✓	✓	✓			
<b>Dimensions</b>								
	A	mm	105	139	105	139	139	183
	B	mm	157	157	175	175	175	279
	C	mm	81	81	81	81	81	102
	D	mm	107	107	107	107	107	138

#### Breaking capacity $I_{cu}/I_{cs}$ RMS value according to IEC 60947-2

##### Standard breaking capacity N<sup>3)</sup> (N)

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 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	--	--	--
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	25	25	25	35
Up to 600 V AC	kA	8 <sup>4)</sup>	12	12	20

##### High breaking capacity H<sup>3)</sup> (H)

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 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	42	50	50	50
Up to 600 V AC	kA	12 <sup>4)</sup>	12	12	20

##### Very high breaking capacity L<sup>3)</sup> (L)

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 <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
NEMA breaking capacity <sup>6)</sup>					
Up to 480 V AC	kA	--	75	75	75
Up to 600 V AC	kA	--	12	12	20

✓ Available  
-- Not available

<sup>1)</sup> Rated DC voltage applies only for circuit breakers with thermal-magnetic release.

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

For 3VL molded case circuit breakers according to UL 489 see [Product Information on 3VL Molded Case Circuit Breakers for the UL Market or Catalog LV 16](#).

# Molded Case Circuit Breakers

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

Introduction

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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
30/30	--	--	--
--	--	--	--
--	--	--	--
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
30/30	--	--	--
30/30	--	--	--
--	--	--	--
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
30/30	--	--	--
30/30	--	--	--
30/30	--	--	--
65	65	65	65
35	35	35	35

<sup>3)</sup> 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.

<sup>4)</sup> Rated current  $I_n \geq 25$  A.

<sup>5)</sup> 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](http://www.siemens.com/lowvoltage/product-support); time constant  $t = 15$  ms.

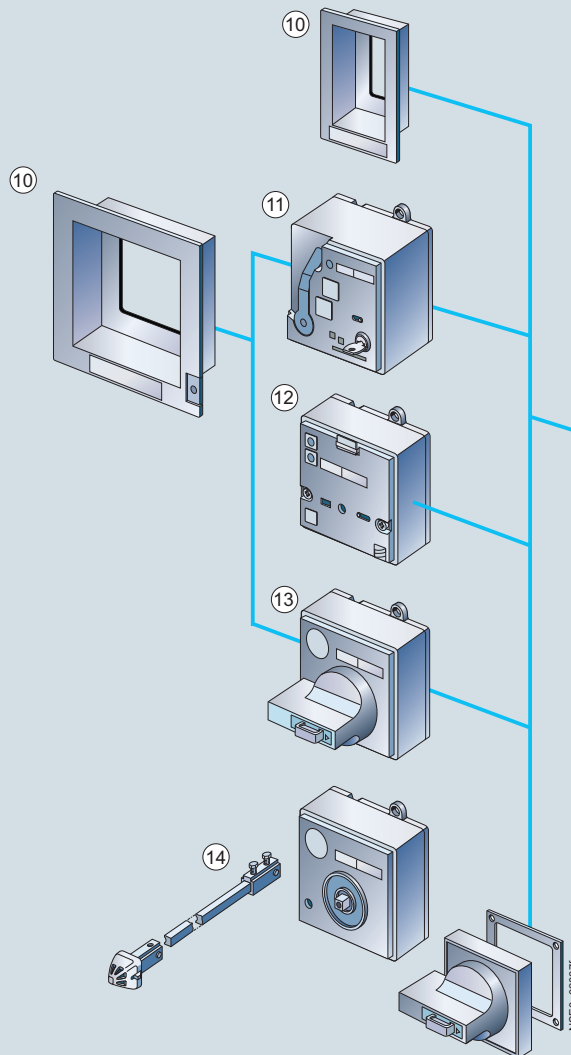
<sup>6)</sup> The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

# Molded Case Circuit Breakers

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

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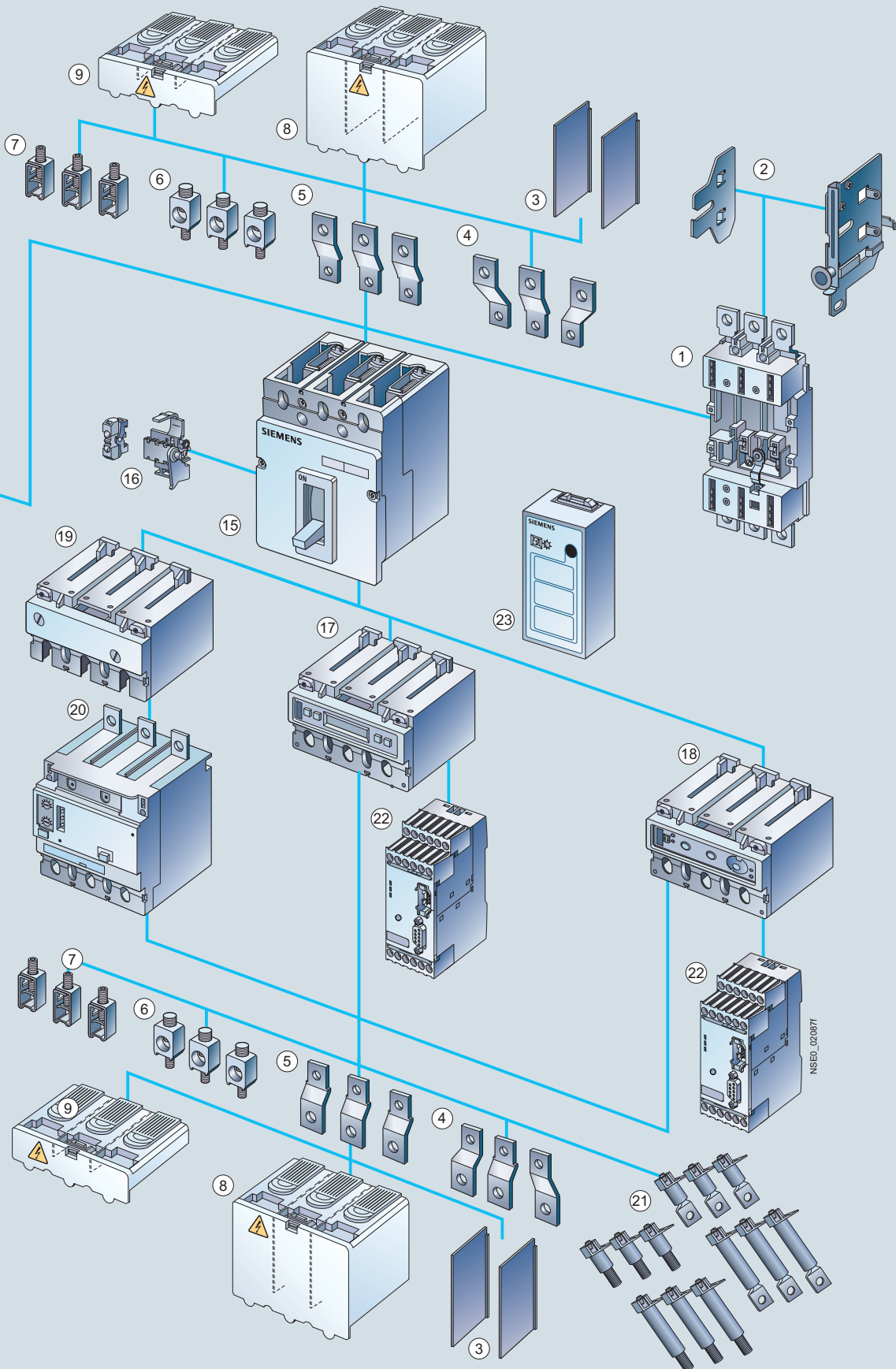
### Introduction



- ① Withdrawable/plug-in bases (pages 2/72 to 2/77)
- ② Side walls of withdrawable unit (pages 2/72 to 2/77)
- ③ Phase barriers (pages 2/79 to 2/84)
- ④ Flared front busbar connecting bars (pages 2/79 to 2/84)
- ⑤ Straight connecting bars (pages 2/79 to 2/84)
- ⑥ Circular conductor terminals for Al/Cu (pages 2/79 to 2/81)
- ⑦ Box terminals for Cu (pages 2/79 to 2/84)
- ⑧ Extended connection covers (terminal covers) (pages 2/79 to 2/84)
- ⑨ Standard connection covers (pages 2/79 to 2/84)
- ⑩ Masking frames/cover frames for door cutout (pages 2/94 to 2/97)
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/68)
- ⑫ Motorized operating mechanism (MO) (page 2/68)
- ⑬ Front-operated rotary operating mechanisms (pages 2/64 to 2/67)
- ⑭ Door-coupling rotary operating mechanisms (pages 2/64 to 2/67)
- ⑮ 3VL molded case circuit breakers (pages 2/12 to 2/55)
- ⑯ Internal accessories (pages 2/59, 2/60, 2/61 to 2/63)
- ⑰ Electronic Trip Units LCD ETU (pages 2/22, 2/26, 2/30, 2/46 and 2/48)
- ⑱ Electronic Trip Units with communication function (pages 2/14 to 2/30 and 2/42 to 2/52)
- ⑲ Thermal/magnetic overcurrent releases (pages 2/12 to 2/14, 2/32, 2/36 to 2/40, 2/54)
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- ㉑ Rear terminals – flat and round (pages 2/79 to 2/84)
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# Molded Case Circuit Breakers

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





# Molded Case Circuit Breakers

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

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### Introduction

#### 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 1 600 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 2/14 to 2/30, 2/42 to 2/52.
- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "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
- Disconnecter units with features for stopping and switching off in an emergency (main control switches 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 system 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 IEC 60947-2, EN 60947-2.

Disconnecting features (main control switches) according to DIN EN 60204 (VDE 0113).

The 3VL molded case circuit breakers comply in addition with requirements for "disconnecter units 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 fulfill IEC 60947-4-1, VDE 0660-102.

VL160X to VL400 circuit breakers can be equipped with a 3VL RCD module. They then comply with IEC 60947-2 Appendix B.

The 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class B (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.



# Molded Case Circuit Breakers

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

## Introduction

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### RCD modules

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

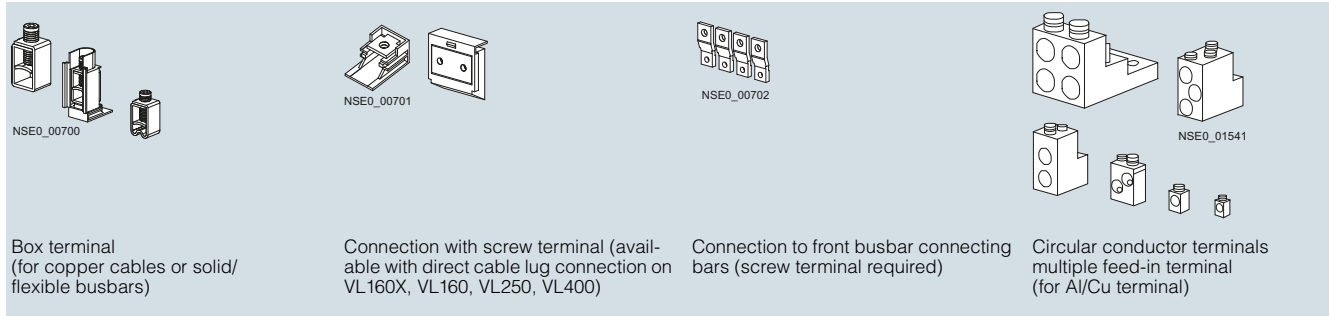
The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

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 DIN 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 terminals	Front-accessible connecting bars
VL160X	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL160	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL250	<input type="checkbox"/>	<input type="checkbox"/>	x	x	x
VL400	x	○	x <sup>2)3)</sup>	x	x
VL630	x <sup>1)</sup>	○	x <sup>2)</sup>	x	x
VL800	--	○	x <sup>2)</sup>	x	x
VL1250	--	○	x <sup>2)</sup>	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
<b>Conductor cross-sections</b>								
Box terminals <sup>1)</sup>								
• Solid or stranded cable	Copper only	mm <sup>2</sup> 2.5 ... 95	2.5 ... 95	25 ... 185	50 ... 300	--	--	--
• Finely stranded with end sleeve		mm <sup>2</sup> 2.5 ... 50	2.5 ... 50	25 ... 120	50 ... 240	--	--	--
• Flexible busbar		mm 12 × 10	12 × 10	17 × 10	25 × 10	--	--	--
Connecting terminal plate for flexible busbar <sup>2)</sup>		mm --	--	--	2 units 10 × 32	--	--	--
Circular conductor terminal for cable <sup>1)</sup>								
• Solid or stranded cable	Cu or Al	mm <sup>2</sup> 16 ... 70	16 ... 70	25 ... 185	50 ... 300	--	--	--
- with terminal cover	Cu or Al	mm <sup>2</sup> 16 ... 150	16 ... 150	120 ... 240	--	--	--	--
• Finely stranded with end sleeve		mm <sup>2</sup> 10 ... 50	10 ... 50	25 ... 120	50 ... 240	--	--	--
Multiple feed-in terminal <sup>1)</sup>								
• Solid or stranded cable	Cu or Al	mm <sup>2</sup> --	--	--	2 units 50 ... 120	2 units 50 ... 240	3 units 50 ... 240	4 units 50 ... 240
- with terminal cover	Cu or Al	mm <sup>2</sup> --	--	--	2 units 70 ... 300	--	--	--
• Finely stranded with end sleeve		mm <sup>2</sup> --	--	--	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 × 7	22 × 7	24 × 7	32 × 10	40 × 10	2 × 40 × 10	2 × 50 × 10
• Screw for connection with screw terminal		M6	M6	M8	M8	M6	M8	M8
<b>Conductor cross-sections for control circuits with terminal connection</b>								
Screw terminals								
• Solid		mm <sup>2</sup> 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
• Finely stranded with end sleeve		mm <sup>2</sup> 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

<sup>1)</sup> Cross-sections according to IEC 60999.

<sup>2)</sup> Not for 690 V AC/600 V DC.

# Molded Case Circuit Breakers

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

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### Introduction

#### VL160 to VL1600 Electronic Trip Units – Functional overview

Article No. supplement	Releases	System protection	System/generator protection	Motor protection	Starter protection	Non-automatic circuit breakers	Function	Setting options					
								L	S <sup>1)</sup>	I <sup>1)</sup>	G		
								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]	$I_i = \times I_n$	$I_g = \times I_n$	$t_g$ [s]
DK	M	--	--	--	✓	--	I	--	--	--	7 ... 15	--	--
DE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
EE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
DA	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--
DD	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 <sup>4)</sup>	--	--
DC	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EH	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--
EJ	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EA/EL	TM <sup>2)</sup>	✓	--	--	--	--	LIN	1	--	--	9 ... 18 <sup>4)</sup>	--	--
EC	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
EM	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
SP	ETU10M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MP	ETU10M <sup>3)</sup>	--	--	✓	--	--	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 <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
MS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
LS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
UP	LCD ETU40M <sup>3)</sup>	--	--	✓	--	--	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.

<sup>4)</sup> Non-adjustable.

-- Function not available

<sup>1)</sup> Size dependent.<sup>2)</sup> TM up to  $I_n = 630$  A.<sup>3)</sup> Motor protection up to  $I_n = 500$  A.

# Molded Case Circuit Breakers

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

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

### Ground-fault protection

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

✓ Function is available.

-- Function not available

<sup>1)</sup> Size dependent.

<sup>2)</sup> TM up to  $I_n = 630$  A.

<sup>3)</sup> Motor protection up to  $I_n = 500$  A.

<sup>4)</sup> With COM20/COM21.

# Molded Case Circuit Breakers

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

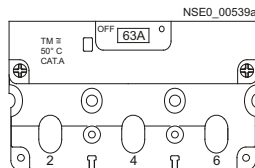
2

3-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting range of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for system protection, 16 A to 160 A, thermal-magnetic releases LI



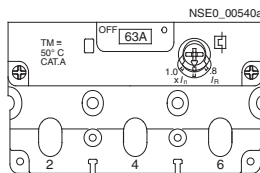
#### System protection, TM, LI function

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

VL160X/	16	16	300	<b>3VL1796-1DA3□-□□□□</b>	1	1 unit	113	1.900
3VL1	20	20	300	<b>3VL1702-1DA3□-□□□□</b>	1	1 unit	113	1.900
	25	25	300	<b>3VL1725-1DA3□-□□□□</b>	1	1 unit	113	2.000
	32	32	300	<b>3VL1703-1DA3□-□□□□</b>	1	1 unit	113	2.000
	40	40	600	<b>3VL1704-1DA3□-□□□□</b>	1	1 unit	113	2.000
	50	50	600	<b>3VL1705-1DA3□-□□□□</b>	1	1 unit	113	2.000
	63	63	600	<b>3VL1706-1DA3□-□□□□</b>	1	1 unit	113	2.000
	80	80	1000	<b>3VL1708-1DA3□-□□□□</b>	1	1 unit	113	2.000
	100	100	1000	<b>3VL1710-1DA3□-□□□□</b>	1	1 unit	113	2.000
	125	125	1000	<b>3VL1712-1DA3□-□□□□</b>	1	1 unit	113	2.000
	160	160	1500	<b>3VL1716-1DA3□-□□□□</b>	1	1 unit	113	2.000

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

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



#### System protection, TM, LI function

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

VL160X/	20	16 ... 20	300	<b>3VL1702-1DD3□-□□□□</b>	1	1 unit	113	1.900
3VL1	32	25 ... 32	300	<b>3VL1703-1DD3□-□□□□</b>	1	1 unit	113	2.000
	40	32 ... 40	600	<b>3VL1704-1DD3□-□□□□</b>	1	1 unit	113	2.000
	50	40 ... 50	600	<b>3VL1705-1DD3□-□□□□</b>	1	1 unit	113	2.000
	63	50 ... 63	600	<b>3VL1706-1DD3□-□□□□</b>	1	1 unit	113	2.000
	80	63 ... 80	1000	<b>3VL1708-1DD3□-□□□□</b>	1	1 unit	113	2.000
	100	80 ... 100	1000	<b>3VL1710-1DD3□-□□□□</b>	1	1 unit	113	2.000
	125	100 ... 125	1000	<b>3VL1712-1DD3□-□□□□</b>	1	1 unit	113	2.000
	160	125 ... 160	1500	<b>3VL1716-1DD3□-□□□□</b>	1	1 unit	113	2.000

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

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



# Molded Case Circuit Breakers

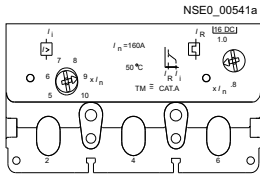
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <small>See "Overview".</small>	(N)				
	A	A	A		Article No. Article No. supplement, see page 2/58	For basic price per PU/price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

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



#### System 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	<b>3VL2705-1DC3</b> □-□□□□ <b>3VL2706-1DC3</b> □-□□□□ <b>3VL2708-1DC3</b> □-□□□□ <b>3VL2710-1DC3</b> □-□□□□ <b>3VL2712-1DC3</b> □-□□□□ <b>3VL2716-1DC3</b> □-□□□□	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	113 113 113 113 113 113	2.200 2.200 2.200 2.200 2.200 2.200
VL250/ 3VL3	200 250	160 ... 200 200 ... 250	1000 ... 2000 1250 ... 2500	<b>3VL3720-1DC3</b> □-□□□□ <b>3VL3725-1DC3</b> □-□□□□	1 1	1 unit 1 unit	113 113	2.300 2.300

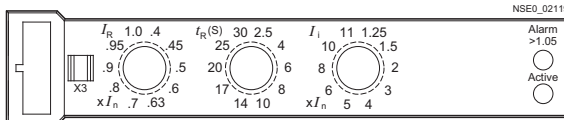
Connection type can be selected by assignment of the 12th pos. of the Article No.

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	200 250 315 400	160 ... 200 200 ... 250 250 ... 315 320 ... 400	1000 ... 2000 1250 ... 2500 1575 ... 3150 2000 ... 4000	<b>3VL4720-1DC36</b> □-□□□□ <b>3VL4725-1DC36</b> □-□□□□ <b>3VL4731-1DC36</b> □-□□□□ <b>3VL4740-1DC36</b> □-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	113 113 113 113	5.700 5.700 5.700 5.700
VL630/3VL5	315 400 500 630	250 ... 315 320 ... 400 400 ... 500 500 ... 630	1575 ... 3150 2000 ... 4000 2500 ... 5000 3150 ... 6300	<b>3VL5731-1DC36</b> □-□□□□ <b>3VL5740-1DC36</b> □-□□□□ <b>3VL5750-1DC36</b> □-□□□□ <b>3VL5763-1DC36</b> □-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	113 113 113 113	9.000 9.000 9.000 9.000

#### 3-pole, fixed-mounted, for system 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	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$	<b>3VL2706-1</b> □□3□-□□□□ <b>3VL2710-1</b> □□3□-□□□□ <b>3VL2716-1</b> □□3□-□□□□	1 1 1	1 unit 1 unit 1 unit	113 113 113	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$	<b>3VL3720-1</b> □□3□-□□□□ <b>3VL3725-1</b> □□3□-□□□□	1 1	1 unit 1 unit	113 113	2.500 2.500

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$	<b>3VL4731-1</b> □□36-□□□□ <b>3VL4740-1</b> □□36-□□□□	1 1	1 unit 1 unit	113 113	5.900 5.900
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	<b>3VL5763-1</b> □□36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	<b>3VL6780-1</b> □□36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	$1.25 \dots 11 \times I_n$ $1.25 \dots 11 \times I_n$	<b>3VL7710-1</b> □□36-□□□□ <b>3VL7712-1</b> □□36-□□□□	1 1	1 unit 1 unit	113 113	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	<b>3VL8716-1</b> □□30-□□□□	1	1 unit	113	31.300

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

SB  
MB  
LB

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

3-pole

DT	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b>					(H)	DT	<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b>					(L)
	Article No. Article No. supplement, see page 2/58	For basic price per PU/ price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg		Article No. Article No. supplement, see page 2/58	For basic price per PU/ price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg

3VL2705-2DC3□-□□□□	1	1 unit	113	2.200			3VL2705-3DC3□-□□□□	1	1 unit	113	2.200		
3VL2706-2DC3□-□□□□	1	1 unit	113	2.200			3VL2706-3DC3□-□□□□	1	1 unit	113	2.200		
3VL2708-2DC3□-□□□□	1	1 unit	113	2.200			3VL2708-3DC3□-□□□□	1	1 unit	113	2.200		
3VL2710-2DC3□-□□□□	1	1 unit	113	2.200			3VL2710-3DC3□-□□□□	1	1 unit	113	2.200		
3VL2712-2DC3□-□□□□	1	1 unit	113	2.200			3VL2712-3DC3□-□□□□	1	1 unit	113	2.200		
3VL2716-2DC3□-□□□□	1	1 unit	113	2.200			3VL2716-3DC3□-□□□□	1	1 unit	113	2.200		
3VL3720-2DC3□-□□□□	1	1 unit	113	2.300			3VL3720-3DC3□-□□□□	1	1 unit	113	2.300		
3VL3725-2DC3□-□□□□	1	1 unit	113	2.300			3VL3725-3DC3□-□□□□	1	1 unit	113	2.300		

3  
6

3  
6

3VL4720-2DC36-□□□□	1	1 unit	113	5.700			3VL4720-3DC36-□□□□	1	1 unit	113	5.700		
3VL4725-2DC36-□□□□	1	1 unit	113	5.700			3VL4725-3DC36-□□□□	1	1 unit	113	5.700		
3VL4731-2DC36-□□□□	1	1 unit	113	5.700			3VL4731-3DC36-□□□□	1	1 unit	113	5.700		
3VL4740-2DC36-□□□□	1	1 unit	113	5.700			3VL4740-3DC36-□□□□	1	1 unit	113	5.700		
3VL5731-2DC36-□□□□	1	1 unit	113	9.000			3VL5731-3DC36-□□□□	1	1 unit	113	9.000		
3VL5740-2DC36-□□□□	1	1 unit	113	9.000			3VL5740-3DC36-□□□□	1	1 unit	113	9.000		
3VL5750-2DC36-□□□□	1	1 unit	113	9.000			3VL5750-3DC36-□□□□	1	1 unit	113	9.000		
3VL5763-2DC36-□□□□	1	1 unit	113	9.000			3VL5763-3DC36-□□□□	1	1 unit	113	9.000		

3VL2706-2□□3□-□□□□	1	1 unit	113	2.400			3VL2706-3□□3□-□□□□	1	1 unit	113	2.400		
3VL2710-2□□3□-□□□□	1	1 unit	113	2.400			3VL2710-3□□3□-□□□□	1	1 unit	113	2.400		
3VL2716-2□□3□-□□□□	1	1 unit	113	2.400			3VL2716-3□□3□-□□□□	1	1 unit	113	2.400		
3VL3720-2□□3□-□□□□	1	1 unit	113	2.500			3VL3720-3□□3□-□□□□	1	1 unit	113	2.500		
3VL3725-2□□3□-□□□□	1	1 unit	113	2.500			3VL3725-3□□3□-□□□□	1	1 unit	113	2.500		

3  
6

3  
6

3VL4731-2□□36-□□□□	1	1 unit	113	5.900			3VL4731-3□□36-□□□□	1	1 unit	113	5.900		
3VL4740-2□□36-□□□□	1	1 unit	113	5.900			3VL4740-3□□36-□□□□	1	1 unit	113	5.900		
3VL5763-2□□36-□□□□	1	1 unit	113	9.300			3VL5763-3□□36-□□□□	1	1 unit	113	9.300		
3VL6780-2□□36-□□□□	1	1 unit	113	16.000			3VL6780-3□□36-□□□□	1	1 unit	113	16.000		
3VL7710-2□□36-□□□□	1	1 unit	113	25.000			3VL7710-3□□36-□□□□	1	1 unit	113	25.000		
3VL7712-2□□36-□□□□	1	1 unit	113	25.000			3VL7712-3□□36-□□□□	1	1 unit	113	25.000		
3VL8716-2□□30-□□□□	1	1 unit	113	31.300			3VL8716-3□□30-□□□□	1	1 unit	113	31.300		

SB  
MB  
LB

SB  
MB  
LB



# Molded Case Circuit Breakers

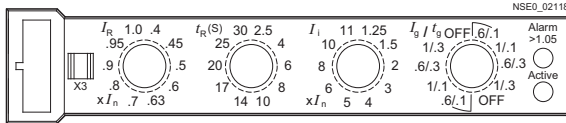
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <small>See "Overview".</small>					(N)
	A	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
											kg

#### 3-pole, fixed-mounted, for system 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	<b>3VL2706-1</b> □□3□-□□□□		1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL2710-1</b> □□3□-□□□□		1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL2716-1</b> □□3□-□□□□		1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL3720-1</b> □□3□-□□□□		1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL3725-1</b> □□3□-□□□□		1	1 unit	113	2.500

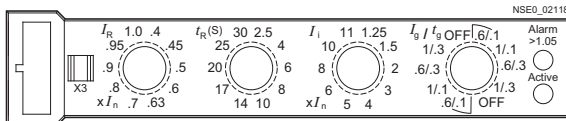
Connection type can be selected by assignment of the 12th pos. of the Article No.

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

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL4731-1</b> □□36-□□□□		1	1 unit	113	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL4740-1</b> □□36-□□□□		1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL5763-1</b> □□36-□□□□		1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL6780-1</b> □□36-□□□□		1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL7710-1</b> □□36-□□□□		1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL7712-1</b> □□36-□□□□		1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL8716-1</b> □□30-□□□□		1	1 unit	113	31.300

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

#### 3-pole, fixed-mounted, for system 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 2/92. 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	<b>3VL2706-1</b> □□3□-□□□□		1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL2710-1</b> □□3□-□□□□		1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL2716-1</b> □□3□-□□□□		1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL3720-1</b> □□3□-□□□□		1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL3725-1</b> □□3□-□□□□		1	1 unit	113	2.500

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

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

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL4731-1</b> □□36-□□□□		1	1 unit	113	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL4740-1</b> □□36-□□□□		1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL5763-1</b> □□36-□□□□		1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL6780-1</b> □□36-□□□□		1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL7710-1</b> □□36-□□□□		1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL7712-1</b> □□36-□□□□		1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$	OFF	<b>3VL8716-1</b> □□30-□□□□		1	1 unit	113	31.300

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

<sup>1)</sup> 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

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	

3VL2706-2□□3□-□□□□		1	1 unit	113	2.400		3VL2706-3□□3□-□□□□		1	1 unit	113	2.400
3VL2710-2□□3□-□□□□		1	1 unit	113	2.400		3VL2710-3□□3□-□□□□		1	1 unit	113	2.400
3VL2716-2□□3□-□□□□		1	1 unit	113	2.400		3VL2716-3□□3□-□□□□		1	1 unit	113	2.400
3VL3720-2□□3□-□□□□		1	1 unit	113	2.500		3VL3720-3□□3□-□□□□		1	1 unit	113	2.500
3VL3725-2□□3□-□□□□		1	1 unit	113	2.500		3VL3725-3□□3□-□□□□		1	1 unit	113	2.500

3  
63  
6

3VL4731-2□□36-□□□□		1	1 unit	113	5.900		3VL4731-3□□36-□□□□		1	1 unit	113	5.900
3VL4740-2□□36-□□□□		1	1 unit	113	5.900		3VL4740-3□□36-□□□□		1	1 unit	113	5.900
3VL5763-2□□36-□□□□		1	1 unit	113	9.300		3VL5763-3□□36-□□□□		1	1 unit	113	9.300
3VL6780-2□□36-□□□□		1	1 unit	113	16.000		3VL6780-3□□36-□□□□		1	1 unit	113	16.000
3VL7710-2□□36-□□□□		1	1 unit	113	25.000		3VL7710-3□□36-□□□□		1	1 unit	113	25.000
3VL7712-2□□36-□□□□		1	1 unit	113	25.000		3VL7712-3□□36-□□□□		1	1 unit	113	25.000
3VL8716-2□□30-□□□□		1	1 unit	113	31.300		3VL8716-3□□30-□□□□		1	1 unit	113	31.300

SL  
MLSL  
ML

3VL2706-2□□3□-□□□□		1	1 unit	113	2.400		3VL2706-3□□3□-□□□□		1	1 unit	113	2.400
3VL2710-2□□3□-□□□□		1	1 unit	113	2.400		3VL2710-3□□3□-□□□□		1	1 unit	113	2.400
3VL2716-2□□3□-□□□□		1	1 unit	113	2.400		3VL2716-3□□3□-□□□□		1	1 unit	113	2.400
3VL3720-2□□3□-□□□□		1	1 unit	113	2.500		3VL3720-3□□3□-□□□□		1	1 unit	113	2.500
3VL3725-2□□3□-□□□□		1	1 unit	113	2.500		3VL3725-3□□3□-□□□□		1	1 unit	113	2.500

3  
63  
6

3VL4731-2□□36-□□□□		1	1 unit	113	5.900		3VL4731-3□□36-□□□□		1	1 unit	113	5.900
3VL4740-2□□36-□□□□		1	1 unit	113	5.900		3VL4740-3□□36-□□□□		1	1 unit	113	5.900
3VL5763-2□□36-□□□□		1	1 unit	113	9.300		3VL5763-3□□36-□□□□		1	1 unit	113	9.300
3VL6780-2□□36-□□□□		1	1 unit	113	16.000		3VL6780-3□□36-□□□□		1	1 unit	113	16.000
3VL7710-2□□36-□□□□		1	1 unit	113	25.000		3VL7710-3□□36-□□□□		1	1 unit	113	25.000
3VL7712-2□□36-□□□□		1	1 unit	113	25.000		3VL7712-3□□36-□□□□		1	1 unit	113	25.000
3VL8716-2□□30-□□□□		1	1 unit	113	31.300		3VL8716-3□□30-□□□□		1	1 unit	113	31.300

SF  
MFSF  
MF

Communication:

- For accessories, see page 2/93.

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

\* You can order this quantity or a multiple thereof.

# Molded Case Circuit Breakers

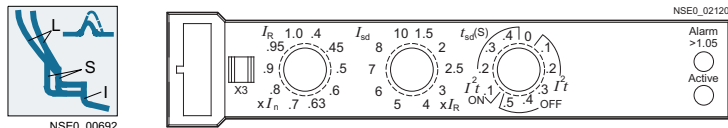
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantan. short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <small>see "Overview".</small>					(N)	
	A	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	kg

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



#### ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, non-adjustable 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 × $I_R$	<b>3VL2706-1□□3□-□□□□</b>	1	1 unit	113	2.400
	100	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL2710-1□□3□-□□□□</b>	1	1 unit	113	2.400
	160	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL2716-1□□3□-□□□□</b>	1	1 unit	113	2.400
VL250/3VL3	200	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL3720-1□□3□-□□□□</b>	1	1 unit	113	2.500
	250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL3725-1□□3□-□□□□</b>	1	1 unit	113	2.500

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

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

VL400/3VL4	315	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL4731-1□□36-□□□□</b>	1	1 unit	113	5.900
	400	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL4740-1□□36-□□□□</b>	1	1 unit	113	5.900
VL630/3VL5	630	0.4 ... 1.0 × $I_n$	10 × $I_n$	1.5 ... 9 × $I_R$	<b>3VL5763-1□□36-□□□□</b>	1	1 unit	113	9.300
VL800/3VL6	800	0.4 ... 1.0 × $I_n$	8 × $I_n$	1.5 ... 7 × $I_R$	<b>3VL6780-1□□36-□□□□</b>	1	1 unit	113	16.000
VL1250/3VL7	1000	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL7710-1□□36-□□□□</b>	1	1 unit	113	25.000
	1250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	<b>3VL7712-1□□36-□□□□</b>	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	0.4 ... 1.0 × $I_n$	9 × $I_n$	1.5 ... 8 × $I_R$	<b>3VL8716-1□□30-□□□□</b>	1	1 unit	113	31.300

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

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

3-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>3VL2706-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2706-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL2710-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2710-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL2716-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2716-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL3720-2□□3□-□□□□</b>		1	1 unit	113	2.500	<b>3VL3720-3□□3□-□□□□</b>		1	1 unit	113	2.500
<b>3VL3725-2□□3□-□□□□</b>		1	1 unit	113	2.500	<b>3VL3725-3□□3□-□□□□</b>		1	1 unit	113	2.500
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
<b>3VL4731-2□□36-□□□□</b>		1	1 unit	113	5.900	<b>3VL4731-3□□36-□□□□</b>		1	1 unit	113	5.900
<b>3VL4740-2□□36-□□□□</b>		1	1 unit	113	5.900	<b>3VL4740-3□□36-□□□□</b>		1	1 unit	113	5.900
<b>3VL5763-2□□36-□□□□</b>		1	1 unit	113	9.300	<b>3VL5763-3□□36-□□□□</b>		1	1 unit	113	9.300
<b>3VL6780-2□□36-□□□□</b>		1	1 unit	113	16.000	<b>3VL6780-3□□36-□□□□</b>		1	1 unit	113	16.000
<b>3VL7710-2□□36-□□□□</b>		1	1 unit	113	25.000	<b>3VL7710-3□□36-□□□□</b>		1	1 unit	113	25.000
<b>3VL7712-2□□36-□□□□</b>		1	1 unit	113	25.000	<b>3VL7712-3□□36-□□□□</b>		1	1 unit	113	25.000
<b>3VL8716-2□□30-□□□□</b>		1	1 unit	113	31.300	<b>3VL8716-3□□30-□□□□</b>		1	1 unit	113	31.300
<b>SE</b>						<b>SE</b>					
<b>ME</b>						<b>ME</b>					
<b>LE</b>						<b>LE</b>					

# Molded Case Circuit Breakers

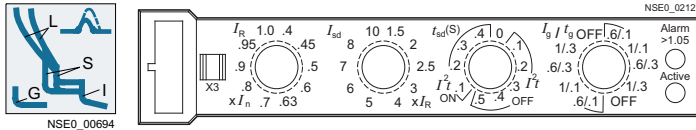
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <small>See "Overview".</small>					
	A	A	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 3-pole, fixed-mounted, for system 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, non-adjustable 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 protection (G) can be switched off

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL2706-1□□3□-□□□□</b>	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL2710-1□□3□-□□□□</b>	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL2716-1□□3□-□□□□</b>	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL3720-1□□3□-□□□□</b>	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL3725-1□□3□-□□□□</b>	1	1 unit	113	2.500

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

- Connection with box terminal
- Connection with screw terminal

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	<b>3VL4731-1□□36-□□□□</b>	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL4740-1□□36-□□□□</b>	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL5763-1□□36-□□□□</b>	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL6780-1□□36-□□□□</b>	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL7710-1□□36-□□□□</b>	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL7712-1□□36-□□□□</b>	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL8716-1□□30-□□□□</b>	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SG  
MG

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

3-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	Article No. supplement, see page 2/58				kg			Article No. supplement, see page 2/58				kg	

<b>3VL2706-2□□3□-□□□□</b>	1	1 unit	113	2.400		<b>3VL2706-3□□3□-□□□□</b>	1	1 unit	113	2.400	
<b>3VL2710-2□□3□-□□□□</b>	1	1 unit	113	2.400		<b>3VL2710-3□□3□-□□□□</b>	1	1 unit	113	2.400	
<b>3VL2716-2□□3□-□□□□</b>	1	1 unit	113	2.400		<b>3VL2716-3□□3□-□□□□</b>	1	1 unit	113	2.400	
<b>3VL3720-2□□3□-□□□□</b>	1	1 unit	113	2.500		<b>3VL3720-3□□3□-□□□□</b>	1	1 unit	113	2.500	
<b>3VL3725-2□□3□-□□□□</b>	1	1 unit	113	2.500		<b>3VL3725-3□□3□-□□□□</b>	1	1 unit	113	2.500	

3  
63  
6

<b>3VL4731-2□□36-□□□□</b>	1	1 unit	113	5.900		<b>3VL4731-3□□36-□□□□</b>	1	1 unit	113	5.900	
<b>3VL4740-2□□36-□□□□</b>	1	1 unit	113	5.900		<b>3VL4740-3□□36-□□□□</b>	1	1 unit	113	5.900	
<b>3VL5763-2□□36-□□□□</b>	1	1 unit	113	9.300		<b>3VL5763-3□□36-□□□□</b>	1	1 unit	113	9.300	
<b>3VL6780-2□□36-□□□□</b>	1	1 unit	113	16.000		<b>3VL6780-3□□36-□□□□</b>	1	1 unit	113	16.000	
<b>3VL7710-2□□36-□□□□</b>	1	1 unit	113	25.000		<b>3VL7710-3□□36-□□□□</b>	1	1 unit	113	25.000	
<b>3VL7712-2□□36-□□□□</b>	1	1 unit	113	25.000		<b>3VL7712-3□□36-□□□□</b>	1	1 unit	113	25.000	
<b>3VL8716-2□□30-□□□□</b>	1	1 unit	113	31.300		<b>3VL8716-3□□30-□□□□</b>	1	1 unit	113	31.300	

SG  
MGSG  
MG

# Molded Case Circuit Breakers

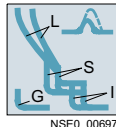
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

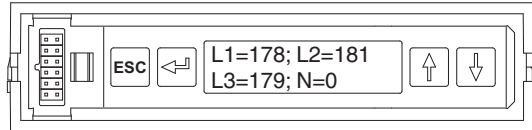
### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
												kg

3-pole, fixed-mounted, for system 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  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

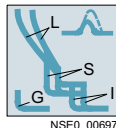
VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2706-1UL3</b> □-□□□□	1	1 unit	113	2,400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2710-1UL3</b> □-□□□□	1	1 unit	113	2,400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2716-1UL3</b> □-□□□□	1	1 unit	113	2,400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3720-1UL3</b> □-□□□□	1	1 unit	113	2,500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3725-1UL3</b> □-□□□□	1	1 unit	113	2,500

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

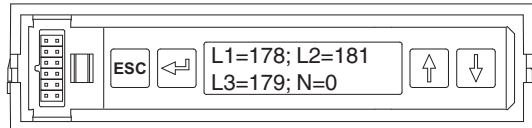
- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4731-1UL36</b> □-□□□□	1	1 unit	113	5,900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4740-1UL36</b> □-□□□□	1	1 unit	113	5,900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL5763-1UL36</b> □-□□□□	1	1 unit	113	9,300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL6780-1UL36</b> □-□□□□	1	1 unit	113	16,000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7710-1UL36</b> □-□□□□	1	1 unit	113	25,000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7712-1UL36</b> □-□□□□	1	1 unit	113	25,000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL8716-1UL30</b> □-□□□□	1	1 unit	113	31,300



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 transformer required in addition, see page 2/92.

Vectorial summation current formation, ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2706-1UM3</b> □-□□□□	1	1 unit	113	2,400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2710-1UM3</b> □-□□□□	1	1 unit	113	2,400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2716-1UM3</b> □-□□□□	1	1 unit	113	2,400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3720-1UM3</b> □-□□□□	1	1 unit	113	2,500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3725-1UM3</b> □-□□□□	1	1 unit	113	2,500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4731-1UM36</b> □-□□□□	1	1 unit	113	5,900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4740-1UM36</b> □-□□□□	1	1 unit	113	5,900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL5763-1UM36</b> □-□□□□	1	1 unit	113	9,300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL6780-1UM36</b> □-□□□□	1	1 unit	113	16,000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7710-1UM36</b> □-□□□□	1	1 unit	113	25,000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7712-1UM36</b> □-□□□□	1	1 unit	113	25,000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL8716-1UM30</b> □-□□□□	1	1 unit	113	31,300

<sup>1)</sup> 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

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
3VL2706-2UL3□-□□□□		1	1 unit	113	2.400	3VL2706-3UL3□-□□□□		1	1 unit	113	2.400
3VL2710-2UL3□-□□□□		1	1 unit	113	2.400	3VL2710-3UL3□-□□□□		1	1 unit	113	2.400
3VL2716-2UL3□-□□□□		1	1 unit	113	2.400	3VL2716-3UL3□-□□□□		1	1 unit	113	2.400
3VL3720-2UL3□-□□□□		1	1 unit	113	2.500	3VL3720-3UL3□-□□□□		1	1 unit	113	2.500
3VL3725-2UL3□-□□□□		1	1 unit	113	2.500	3VL3725-3UL3□-□□□□		1	1 unit	113	2.500
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
3VL4731-2UL36-□□□□		1	1 unit	113	5.900	3VL4731-3UL36-□□□□		1	1 unit	113	5.900
3VL4740-2UL36-□□□□		1	1 unit	113	5.900	3VL4740-3UL36-□□□□		1	1 unit	113	5.900
3VL5763-2UL36-□□□□		1	1 unit	113	9.300	3VL5763-3UL36-□□□□		1	1 unit	113	9.300
3VL6780-2UL36-□□□□		1	1 unit	113	16.000	3VL6780-3UL36-□□□□		1	1 unit	113	16.000
3VL7710-2UL36-□□□□		1	1 unit	113	25.000	3VL7710-3UL36-□□□□		1	1 unit	113	25.000
3VL7712-2UL36-□□□□		1	1 unit	113	25.000	3VL7712-3UL36-□□□□		1	1 unit	113	25.000
3VL8716-2UL30-□□□□		1	1 unit	113	31.300	3VL8716-3UL30-□□□□		1	1 unit	113	31.300
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
3VL2706-2UM3□-□□□□		1	1 unit	113	2.400	3VL2706-3UM3□-□□□□		1	1 unit	113	2.400
3VL2710-2UM3□-□□□□		1	1 unit	113	2.400	3VL2710-3UM3□-□□□□		1	1 unit	113	2.400
3VL2716-2UM3□-□□□□		1	1 unit	113	2.400	3VL2716-3UM3□-□□□□		1	1 unit	113	2.400
3VL3720-2UM3□-□□□□		1	1 unit	113	2.500	3VL3720-3UM3□-□□□□		1	1 unit	113	2.500
3VL3725-2UM3□-□□□□		1	1 unit	113	2.500	3VL3725-3UM3□-□□□□		1	1 unit	113	2.500
<b>3</b>						<b>3</b>					
<b>6</b>						<b>6</b>					
3VL4731-2UM36-□□□□		1	1 unit	113	5.900	3VL4731-3UM36-□□□□		1	1 unit	113	5.900
3VL4740-2UM36-□□□□		1	1 unit	113	5.900	3VL4740-3UM36-□□□□		1	1 unit	113	5.900
3VL5763-2UM36-□□□□		1	1 unit	113	9.300	3VL5763-3UM36-□□□□		1	1 unit	113	9.300
3VL6780-2UM36-□□□□		1	1 unit	113	16.000	3VL6780-3UM36-□□□□		1	1 unit	113	16.000
3VL7710-2UM36-□□□□		1	1 unit	113	25.000	3VL7710-3UM36-□□□□		1	1 unit	113	25.000
3VL7712-2UM36-□□□□		1	1 unit	113	25.000	3VL7712-3UM36-□□□□		1	1 unit	113	25.000
3VL8716-2UM30-□□□□		1	1 unit	113	31.300	3VL8716-3UM30-□□□□		1	1 unit	113	31.300

# Molded Case Circuit Breakers

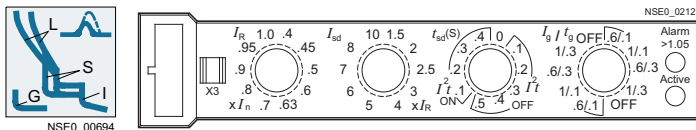
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <small>See "Overview".</small>	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg

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



#### ETU22, LSI G function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, external current transformers required in addition, see page 2/92.

Ground fault delay  $t_g = 0.1 \dots 0.3$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s, ground-fault protection (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	<b>3VL2706-1</b> □□3□-□□□□ <b>3VL2710-1</b> □□3□-□□□□ <b>3VL2716-1</b> □□3□-□□□□	1 1 1	1 unit 1 unit 1 unit	113 113 113	2.400 2.400 2.400
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	<b>3VL3720-1</b> □□3□-□□□□ <b>3VL3725-1</b> □□3□-□□□□	1 1	1 unit 1 unit	113 113	2.500 2.500

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

- Connection with box terminal
- Connection with screw terminal

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	<b>3VL4731-1</b> □□36-□□□□ <b>3VL4740-1</b> □□36-□□□□	1 1	1 unit 1 unit	113 113	5.900 5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL5763-1</b> □□36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL6780-1</b> □□36-□□□□	1	1 unit	113	16.000
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	<b>3VL7710-1</b> □□36-□□□□ <b>3VL7712-1</b> □□36-□□□□	1 1	1 unit 1 unit	113 113	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	<b>3VL8716-1</b> □□30-□□□□	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SH  
MH

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

3-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>3VL2706-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2706-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL2710-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2710-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL2716-2□□3□-□□□□</b>		1	1 unit	113	2.400	<b>3VL2716-3□□3□-□□□□</b>		1	1 unit	113	2.400
<b>3VL3720-2□□3□-□□□□</b>		1	1 unit	113	2.500	<b>3VL3720-3□□3□-□□□□</b>		1	1 unit	113	2.500
<b>3VL3725-2□□3□-□□□□</b>		1	1 unit	113	2.500	<b>3VL3725-3□□3□-□□□□</b>		1	1 unit	113	2.500
<b>3</b> <b>6</b>						<b>3</b> <b>6</b>					
<b>3VL4731-2□□36-□□□□</b>		1	1 unit	113	5.900	<b>3VL4731-3□□36-□□□□</b>		1	1 unit	113	5.900
<b>3VL4740-2□□36-□□□□</b>		1	1 unit	113	5.900	<b>3VL4740-3□□36-□□□□</b>		1	1 unit	113	5.900
<b>3VL5763-2□□36-□□□□</b>		1	1 unit	113	9.300	<b>3VL5763-3□□36-□□□□</b>		1	1 unit	113	9.300
<b>3VL6780-2□□36-□□□□</b>		1	1 unit	113	16.000	<b>3VL6780-3□□36-□□□□</b>		1	1 unit	113	16.000
<b>3VL7710-2□□36-□□□□</b>		1	1 unit	113	25.000	<b>3VL7710-3□□36-□□□□</b>		1	1 unit	113	25.000
<b>3VL7712-2□□36-□□□□</b>		1	1 unit	113	25.000	<b>3VL7712-3□□36-□□□□</b>		1	1 unit	113	25.000
<b>3VL8716-2□□30-□□□□</b>		1	1 unit	113	31.300	<b>3VL8716-3□□30-□□□□</b>		1	1 unit	113	31.300
<b>SH</b> <b>MH</b>						<b>SH</b> <b>MH</b>					

# Molded Case Circuit Breakers

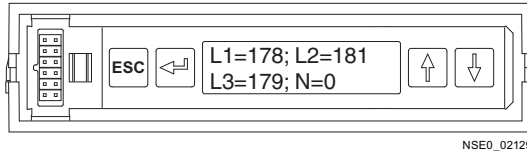
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for system 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 × $I_n$	1.5 ... 10 × $I_R$	3VL2706-1UH3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL2710-1UH3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL2716-1UH3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL3720-1UH3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL3725-1UH3□-□□□□	1	1 unit	113	2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL4731-1UH36-□□□□	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL4740-1UH36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	1.5 ... 9 × $I_R$	3VL5763-1UH36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	1.5 ... 7 × $I_R$	3VL6780-1UH36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL7710-1UH36-□□□□	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	3VL7712-1UH36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	1.5 ... 8 × $I_R$	3VL8716-1UH30-□□□□	1	1 unit	113	31.300

<sup>1)</sup> 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

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H)							DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L)						
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg
3VL2706-2UH3□-□□□□		1	1 unit	113	2.400		3VL2706-3UH3□-□□□□		1	1 unit	113	2.400	
3VL2710-2UH3□-□□□□		1	1 unit	113	2.400		3VL2710-3UH3□-□□□□		1	1 unit	113	2.400	
3VL2716-2UH3□-□□□□		1	1 unit	113	2.400		3VL2716-3UH3□-□□□□		1	1 unit	113	2.400	
3VL3720-2UH3□-□□□□		1	1 unit	113	2.500		3VL3720-3UH3□-□□□□		1	1 unit	113	2.500	
3VL3725-2UH3□-□□□□		1	1 unit	113	2.500		3VL3725-3UH3□-□□□□		1	1 unit	113	2.500	
3 6							3 6						
3VL4731-2UH36-□□□□		1	1 unit	113	5.900		3VL4731-3UH36-□□□□		1	1 unit	113	5.900	
3VL4740-2UH36-□□□□		1	1 unit	113	5.900		3VL4740-3UH36-□□□□		1	1 unit	113	5.900	
3VL5763-2UH36-□□□□		1	1 unit	113	9.300		3VL5763-3UH36-□□□□		1	1 unit	113	9.300	
3VL6780-2UH36-□□□□		1	1 unit	113	16.000		3VL6780-3UH36-□□□□		1	1 unit	113	16.000	
3VL7710-2UH36-□□□□		1	1 unit	113	25.000		3VL7710-3UH36-□□□□		1	1 unit	113	25.000	
3VL7712-2UH36-□□□□		1	1 unit	113	25.000		3VL7712-3UH36-□□□□		1	1 unit	113	25.000	
3VL8716-2UH30-□□□□		1	1 unit	113	31.300		3VL8716-3UH30-□□□□		1	1 unit	113	31.300	

# Molded Case Circuit Breakers

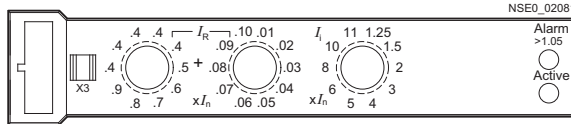
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

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



#### ETU10M, LI function

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

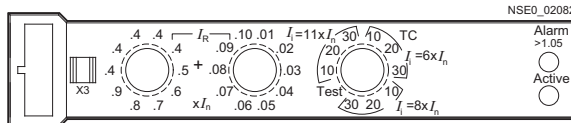
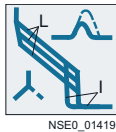
VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	3VL2706-1□□3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	3VL2710-1□□3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	3VL2716-1□□3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	3VL3720-1□□3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	3VL3725-1□□3□-□□□□	1	1 unit	113	2.500

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

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

VL400/3VL4	315	125 ... 315	1.25 ... 11 × $I_n$	3VL4731-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	1.25 ... 12.5 × $I_n$	3VL5750-1□□36-□□□□	1	1 unit	113	9.300

- Without communication preparation **SP**
- With communication preparation **MP**



#### ETU30M, LI function

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 × $I_n$	3VL2706-1□□3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	6/8/11 × $I_n$	3VL2710-1□□3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	6/8/11 × $I_n$	3VL2716-1□□3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	6/8/11 × $I_n$	3VL3720-1□□3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	6/8/11 × $I_n$	3VL3725-1□□3□-□□□□	1	1 unit	113	2.500

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

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

VL400/3VL4	315	125 ... 315	6/8/11 × $I_n$	3VL4731-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	6/8/12.5 × $I_n$	3VL5750-1□□36-□□□□	1	1 unit	113	9.300

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
	Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.		Article No.	Price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
	Article No. supplement, see page 2/58					kg		Article No. supplement, see page 2/58					kg

<b>3VL2706-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2706-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL2710-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2710-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL2716-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2716-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL3720-2□□3□-□□□□</b>	1	1 unit	113	2.500			<b>3VL3720-3□□3□-□□□□</b>	1	1 unit	113	2.500		
<b>3VL3725-2□□3□-□□□□</b>	1	1 unit	113	2.500			<b>3VL3725-3□□3□-□□□□</b>	1	1 unit	113	2.500		

3  
6

3  
6

<b>3VL4731-2□□36-□□□□</b>	1	1 unit	113	5.900			<b>3VL4731-3□□36-□□□□</b>	1	1 unit	113	5.900		
<b>3VL5750-2□□36-□□□□</b>	1	1 unit	113	9.300			<b>3VL5750-3□□36-□□□□</b>	1	1 unit	113	9.300		

SP  
MP

SP  
MP

<b>3VL2706-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2706-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL2710-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2710-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL2716-2□□3□-□□□□</b>	1	1 unit	113	2.400			<b>3VL2716-3□□3□-□□□□</b>	1	1 unit	113	2.400		
<b>3VL3720-2□□3□-□□□□</b>	1	1 unit	113	2.500			<b>3VL3720-3□□3□-□□□□</b>	1	1 unit	113	2.500		
<b>3VL3725-2□□3□-□□□□</b>	1	1 unit	113	2.500			<b>3VL3725-3□□3□-□□□□</b>	1	1 unit	113	2.500		

3  
6

3  
6

<b>3VL4731-2□□36-□□□□</b>	1	1 unit	113	5.900			<b>3VL4731-3□□36-□□□□</b>	1	1 unit	113	5.900		
<b>3VL5750-2□□36-□□□□</b>	1	1 unit	113	9.300			<b>3VL5750-3□□36-□□□□</b>	1	1 unit	113	9.300		

SS  
MS  
LS

SS  
MS  
LS

\* You can order this quantity or a multiple thereof.



# Molded Case Circuit Breakers

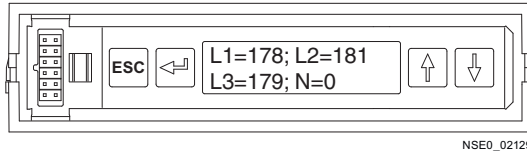
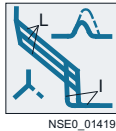
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> See "Overview".	(N)				
	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

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



#### LCD-ETU40M, LI function

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

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	<b>3VL2706-1UP3□-□□□□</b>	1	1 unit	113	2.400
	100	40 ... 100	$1.25 \dots 11 \times I_n$	<b>3VL2710-1UP3□-□□□□</b>	1	1 unit	113	2.400
	160	64 ... 160	$1.25 \dots 11 \times I_n$	<b>3VL2716-1UP3□-□□□□</b>	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	<b>3VL3720-1UP3□-□□□□</b>	1	1 unit	113	2.500
	250	100 ... 250	$1.25 \dots 11 \times I_n$	<b>3VL3725-1UP3□-□□□□</b>	1	1 unit	113	2.500

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	<b>3VL4731-1UP36-□□□□</b>	1	1 unit	113	5.900
VL630/3VL5	500	250 ... 500	$1.25 \dots 11 \times I_n$	<b>3VL5750-1UP36-□□□□</b>	1	1 unit	113	9.300

# Molded Case Circuit Breakers

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

3-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. supplement, see page 2/58					kg		Article No. supplement, see page 2/58					kg
	<b>3VL2706-2UP3□-□□□□</b>		1	1 unit	113	2.400		<b>3VL2706-3UP3□-□□□□</b>		1	1 unit	113	2.400
	<b>3VL2710-2UP3□-□□□□</b>		1	1 unit	113	2.400		<b>3VL2710-3UP3□-□□□□</b>		1	1 unit	113	2.400
	<b>3VL2716-2UP3□-□□□□</b>		1	1 unit	113	2.400		<b>3VL2716-3UP3□-□□□□</b>		1	1 unit	113	2.400
	<b>3VL3720-2UP3□-□□□□</b>		1	1 unit	113	2.500		<b>3VL3720-3UP3□-□□□□</b>		1	1 unit	113	2.500
	<b>3VL3725-2UP3□-□□□□</b>		1	1 unit	113	2.500		<b>3VL3725-3UP3□-□□□□</b>		1	1 unit	113	2.500
	<b>3</b>							<b>3</b>					
	<b>6</b>							<b>6</b>					
	<b>3VL4731-2UP36-□□□□</b>		1	1 unit	113	5.900		<b>3VL4731-3UP36-□□□□</b>		1	1 unit	113	5.900
	<b>3VL5750-2UP36-□□□□</b>		1	1 unit	113	9.300		<b>3VL5750-3UP36-□□□□</b>		1	1 unit	113	9.300

# Molded Case Circuit Breakers

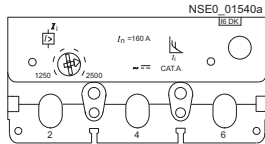
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 3-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
				Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
				Article No. supplement, see page 2/58					kg

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



#### Starter protection, M, I function

Without overcurrent release, with adjustable short-circuit release

VL160/3VL2	63	450 ... 900	3VL2706-1DK3□-□□□□	1	1 unit	113	2,200
	100	750 ... 1500	3VL2710-1DK3□-□□□□	1	1 unit	113	2,200
	160	1250 ... 2500	3VL2716-1DK3□-□□□□	1	1 unit	113	2,200
VL250/3VL3	250	1750 ... 3500	3VL3725-1DK3□-□□□□	1	1 unit	113	2,300

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

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	200	1250 ... 2500	3VL4720-1DK36-□□□□	1	1 unit	113	5,700
	250	2000 ... 4000	3VL4725-1DK36-□□□□	1	1 unit	113	5,700
	315	2000 ... 4000	3VL4731-1DK36-□□□□	1	1 unit	113	5,700
VL630/3VL5	315	2000 ... 4000	3VL5731-1DK36-□□□□	1	1 unit	113	9,000
	500	3250 ... 6300	3VL5750-1DK36-□□□□	1	1 unit	113	9,000

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



#### Non-automatic molded case circuit breakers<sup>1)</sup>, I function

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

VL160X/3VL1	100	1800	3VL1710-1DE3□-□□□□	1	1 unit	113	2,000
	160	1800	3VL1716-1DE3□-□□□□	1	1 unit	113	2,000
VL160/3VL2	100	2500	3VL2710-1DE3□-□□□□	1	1 unit	113	2,200
	160	2500	3VL2716-1DE3□-□□□□	1	1 unit	113	2,200
VL250/3VL3	250	3500	3VL3725-1DE3□-□□□□	1	1 unit	113	2,300

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

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module at 3VL1

3  
6

VL400/3VL4	400	4000	3VL4740-1DE36-□□□□	1	1 unit	113	5,700
VL630/3VL5	630	6300	3VL5763-1DE36-□□□□	1	1 unit	113	9,000
VL800/3VL6	800	6500	3VL6780-1DE36-□□□□	1	1 unit	113	15,700
VL1250/3VL7	1250	12000	3VL7712-1DE36-□□□□	1	1 unit	113	23,500
VL1600/3VL8 <sup>2)</sup>	1600	14400	3VL8716-1DE30-□□□□	1	1 unit	113	29,800

For further versions, including for short-circuit and ground fault protection, see pages 2/14 to 2/30.

<sup>1)</sup> See also chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

<sup>2)</sup> 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

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
3VL2706-2DK3□-□□□□		1	1 unit	113	2.200	3VL2706-3DK3□-□□□□		1	1 unit	113	2.200
3VL2710-2DK3□-□□□□		1	1 unit	113	2.200	3VL2710-3DK3□-□□□□		1	1 unit	113	2.200
3VL2716-2DK3□-□□□□		1	1 unit	113	2.200	3VL2716-3DK3□-□□□□		1	1 unit	113	2.200
3VL3725-2DK3□-□□□□		1	1 unit	113	2.300	3VL3725-3DK3□-□□□□		1	1 unit	113	2.300
3 6						3 6					
3VL4720-2DK36-□□□□		1	1 unit	113	5.700	3VL4720-3DK36-□□□□		1	1 unit	113	5.700
3VL4725-2DK36-□□□□		1	1 unit	113	5.700	3VL4725-3DK36-□□□□		1	1 unit	113	5.700
3VL4731-2DK36-□□□□		1	1 unit	113	5.700	3VL4731-3DK36-□□□□		1	1 unit	113	5.700
3VL5731-2DK36-□□□□		1	1 unit	113	9.000	3VL5731-3DK36-□□□□		1	1 unit	113	9.000
3VL5750-2DK36-□□□□		1	1 unit	113	9.000	3VL5750-3DK36-□□□□		1	1 unit	113	9.000
3 6						3 6					
3VL1710-2DE3□-□□□□		1	1 unit	113	2.000	--					
3VL1716-2DE3□-□□□□		1	1 unit	113	2.000	--					
3VL2710-2DE3□-□□□□		1	1 unit	113	2.200	3VL2710-3DE3□-□□□□		1	1 unit	113	2.200
3VL2716-2DE3□-□□□□		1	1 unit	113	2.200	3VL2716-3DE3□-□□□□		1	1 unit	113	2.200
3VL3725-2DE3□-□□□□		1	1 unit	113	2.300	3VL3725-3DE3□-□□□□		1	1 unit	113	2.300
3 6						3 6					
3VL4740-2DE36-□□□□		1	1 unit	113	5.700	3VL4740-3DE36-□□□□		1	1 unit	113	5.700
3VL5763-2DE36-□□□□		1	1 unit	113	9.000	3VL5763-3DE36-□□□□		1	1 unit	113	9.000
3VL6780-2DE36-□□□□		1	1 unit	113	15.700	3VL6780-3DE36-□□□□		1	1 unit	113	15.700
3VL7712-2DE36-□□□□		1	1 unit	113	23.500	3VL7712-3DE36-□□□□		1	1 unit	113	23.500
3VL8716-2DE30-□□□□		1	1 unit	113	29.800	3VL8716-3DE30-□□□□		1	1 unit	113	29.800

# Molded Case Circuit Breakers

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

2

3-pole

Article No. supplement (for complete Article No., see pages 2/14 to 2/30) 3VL.7... □□3... Releases	Breaking capacity	Type VL160 3VL2	VL250 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	
<b>Price</b>																
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

# Molded Case Circuit Breakers

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

3-pole

Article No. supplement (for complete Article No. see pages 2/14 to 2/30) <b>3VL.7..- .□□3.-....</b> Releases	Breaking capacity	Type <b>VL160</b> 3VL2	<b>VL250</b> 3VL3		<b>VL400</b> 3VL4		<b>VL630</b> 3VL5		<b>VL800</b> 3VL6		<b>VL1250</b> 3VL7		<b>VL1600</b> 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	
<b>Price</b>																
ETU10M <b>SP</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU10M <b>MP</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M <b>SS</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M <b>MS</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU30M <b>LS</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
ETU40M <b>UP</b>	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
		✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		

✓ Available  
-- Not available

# Molded Case Circuit Breakers

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

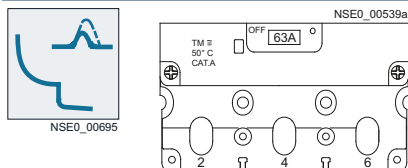
2

4-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
					Article No. supplement, see page 2/58					

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



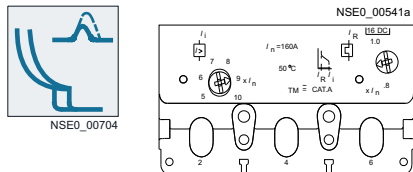
#### System protection, TM, LI function

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

VL160X/3VL1	16	16	300	3VL1796-1EH4□-□□□□	1	1 unit	113	2.300
	20	20	300	3VL1702-1EH4□-□□□□	1	1 unit	113	2.300
	25	25	300	3VL1725-1EH4□-□□□□	1	1 unit	113	2.500
	32	32	300	3VL1703-1EH4□-□□□□	1	1 unit	113	2.500
	40	40	600	3VL1704-1EH4□-□□□□	1	1 unit	113	2.500
	50	50	600	3VL1705-1EH4□-□□□□	1	1 unit	113	2.500
	63	63	600	3VL1706-1EH4□-□□□□	1	1 unit	113	2.500
	80	80	1000	3VL1708-1EH4□-□□□□	1	1 unit	113	2.500
	100	100	1000	3VL1710-1EH4□-□□□□	1	1 unit	113	2.500
	125	125	1000	3VL1712-1EH4□-□□□□	1	1 unit	113	2.500
	160	160	1500	3VL1716-1EH4□-□□□□	1	1 unit	113	2.500

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

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



#### System protection, TM, LI function

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

VL160/3VL2	50	40 ... 50	300 ... 600	3VL2705-1EJ4□-□□□□	1	1 unit	113	3.000
	63	50 ... 63	300 ... 600	3VL2706-1EJ4□-□□□□	1	1 unit	113	3.000
	80	63 ... 80	400 ... 800	3VL2708-1EJ4□-□□□□	1	1 unit	113	3.000
	100	80 ... 100	500 ... 1000	3VL2710-1EJ4□-□□□□	1	1 unit	113	3.000
	125	100 ... 125	625 ... 1250	3VL2712-1EJ4□-□□□□	1	1 unit	113	3.000
	160	125 ... 160	800 ... 1600	3VL2716-1EJ4□-□□□□	1	1 unit	113	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL3720-1EJ4□-□□□□	1	1 unit	113	3.200
	250	200 ... 250	1250 ... 2500	3VL3725-1EJ4□-□□□□	1	1 unit	113	3.200

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

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

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL4720-1EJ46-□□□□	1	1 unit	113	7.400
	250	200 ... 250	1250 ... 2500	3VL4725-1EJ46-□□□□	1	1 unit	113	7.400
	315	250 ... 315	1575 ... 3150	3VL4731-1EJ46-□□□□	1	1 unit	113	7.400
	400	320 ... 400	2000 ... 4000	3VL4740-1EJ46-□□□□	1	1 unit	113	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL5731-1EJ46-□□□□	1	1 unit	113	11.200
	400	320 ... 400	2000 ... 4000	3VL5740-1EJ46-□□□□	1	1 unit	113	11.200
	500	400 ... 500	2500 ... 5000	3VL5750-1EJ46-□□□□	1	1 unit	113	11.200
	630	500 ... 630	3150 ... 6300	3VL5763-1EJ46-□□□□	1	1 unit	113	11.200



# Molded Case Circuit Breakers

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

4-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. supplement, see page 2/58					kg		Article No. supplement, see page 2/58					kg

3VL1796-2EH4□-□□□□	1	1 unit	113	2,300	--
3VL1702-2EH4□-□□□□	1	1 unit	113	2,300	--
3VL1725-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1703-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1704-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1705-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1706-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1708-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1710-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1712-2EH4□-□□□□	1	1 unit	113	2,500	--
3VL1716-2EH4□-□□□□	1	1 unit	113	2,500	--

3  
6

3VL2705-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2705-3EJ4□-□□□□	1	1 unit	113	3,000
3VL2706-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2706-3EJ4□-□□□□	1	1 unit	113	3,000
3VL2708-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2708-3EJ4□-□□□□	1	1 unit	113	3,000
3VL2710-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2710-3EJ4□-□□□□	1	1 unit	113	3,000
3VL2712-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2712-3EJ4□-□□□□	1	1 unit	113	3,000
3VL2716-2EJ4□-□□□□	1	1 unit	113	3,000	3VL2716-3EJ4□-□□□□	1	1 unit	113	3,000
3VL3720-2EJ4□-□□□□	1	1 unit	113	3,200	3VL3720-3EJ4□-□□□□	1	1 unit	113	3,200
3VL3725-2EJ4□-□□□□	1	1 unit	113	3,200	3VL3725-3EJ4□-□□□□	1	1 unit	113	3,200

3  
63  
6

3VL4720-2EJ46-□□□□	1	1 unit	113	7,400	3VL4720-3EJ46-□□□□	1	1 unit	113	7,400
3VL4725-2EJ46-□□□□	1	1 unit	113	7,400	3VL4725-3EJ46-□□□□	1	1 unit	113	7,400
3VL4731-2EJ46-□□□□	1	1 unit	113	7,400	3VL4731-3EJ46-□□□□	1	1 unit	113	7,400
3VL4740-2EJ46-□□□□	1	1 unit	113	7,400	3VL4740-3EJ46-□□□□	1	1 unit	113	7,400
3VL5731-2EJ46-□□□□	1	1 unit	113	11,200	3VL5731-3EJ46-□□□□	1	1 unit	113	11,200
3VL5740-2EJ46-□□□□	1	1 unit	113	11,200	3VL5740-3EJ46-□□□□	1	1 unit	113	11,200
3VL5750-2EJ46-□□□□	1	1 unit	113	11,200	3VL5750-3EJ46-□□□□	1	1 unit	113	11,200
3VL5763-2EJ46-□□□□	1	1 unit	113	11,200	3VL5763-3EJ46-□□□□	1	1 unit	113	11,200

# Molded Case Circuit Breakers

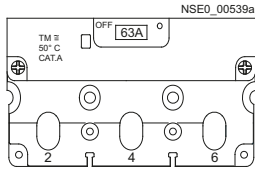
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	<b><math>I_{cu}</math> up to 55 kA at 415 V, standard breaking capacity N</b> <small>See "Overview".</small>					
	A	A	A		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Article No. supplement, see page 2/58					

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



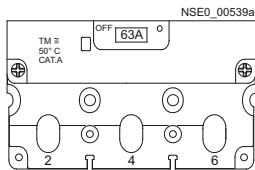
#### System protection, TM, LIN function

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

VL160X/3VL1	$I_n$	$I_R$	$I_i$	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	16	16	300	<b>3VL1796-1EA4□-□□□□</b>		1	1 unit	113	2.300
	20	20	300	<b>3VL1702-1EA4□-□□□□</b>		1	1 unit	113	2.300
	25	25	300	<b>3VL1725-1EA4□-□□□□</b>		1	1 unit	113	2.500
	32	32	300	<b>3VL1703-1EA4□-□□□□</b>		1	1 unit	113	2.500
	40	40	600	<b>3VL1704-1EA4□-□□□□</b>		1	1 unit	113	2.500
	50	50	600	<b>3VL1705-1EA4□-□□□□</b>		1	1 unit	113	2.500
	63	63	600	<b>3VL1706-1EA4□-□□□□</b>		1	1 unit	113	2.500
	80	80	1000	<b>3VL1708-1EA4□-□□□□</b>		1	1 unit	113	2.500
	100	100	1000	<b>3VL1710-1EA4□-□□□□</b>		1	1 unit	113	2.500
	125	125	1000	<b>3VL1712-1EL4□-□□□□</b>		1	1 unit	113	2.500
	160	160	1500	<b>3VL1716-1EL4□-□□□□</b>		1	1 unit	113	2.500

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

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



#### System protection, TM, LIN function

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

VL160X/3VL1	$I_n$	$I_R$	$I_i$	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	125	125	1000	<b>3VL1712-1EA4□-□□□□</b>		1	1 unit	113	2.500
	160	160	1500	<b>3VL1716-1EA4□-□□□□</b>		1	1 unit	113	2.500

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

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

# Molded Case Circuit Breakers

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

4-pole

2

DT	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b>						(H)	DT	<b><math>I_{cu}</math> up to 100 kA at 415 V, very high breaking capacity L</b>						(L)
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		

3VL1796-2EA4□-□□□□	1	1 unit	113	2.300	--
3VL1702-2EA4□-□□□□	1	1 unit	113	2.300	--
3VL1725-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1703-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1704-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1705-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1706-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1708-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1710-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1712-2EL4□-□□□□	1	1 unit	113	2.500	--
3VL1716-2EL4□-□□□□	1	1 unit	113	2.500	--

3  
6

3VL1712-2EA4□-□□□□	1	1 unit	113	2.500	--
3VL1716-2EA4□-□□□□	1	1 unit	113	2.500	--

3  
6

# Molded Case Circuit Breakers

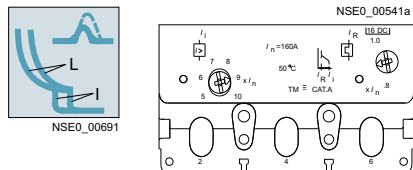
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N <i>See "Overview".</i>					
	A	A	A		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.

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



#### System protection, TM, LIN function

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

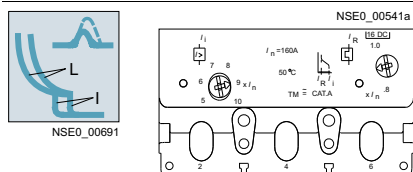
VL160/3VL2	50	40 ... 50	300 ... 600	<b>3VL2705-1EM4</b> □-□□□□	1	1 unit	113	3,000
	63	50 ... 63	300 ... 600	<b>3VL2706-1EM4</b> □-□□□□	1	1 unit	113	3,000
	80	63 ... 80	400 ... 800	<b>3VL2708-1EM4</b> □-□□□□	1	1 unit	113	3,000
	100	80 ... 100	500 ... 1000	<b>3VL2710-1EM4</b> □-□□□□	1	1 unit	113	3,000
	125	100 ... 125	625 ... 1250	<b>3VL2712-1EM4</b> □-□□□□	1	1 unit	113	3,000
	160	125 ... 160	800 ... 1600	<b>3VL2716-1EM4</b> □-□□□□	1	1 unit	113	3,000
VL250/3VL3	200	160 ... 200	1000 ... 2000	<b>3VL3720-1EM4</b> □-□□□□	1	1 unit	113	3,200
	250	200 ... 250	1250 ... 2500	<b>3VL3725-1EM4</b> □-□□□□	1	1 unit	113	3,200

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	<b>3VL4720-1EM46</b> □-□□□□	1	1 unit	113	7,400
	250	200 ... 250	1250 ... 2500	<b>3VL4725-1EM46</b> □-□□□□	1	1 unit	113	7,400
	315	250 ... 315	1575 ... 3150	<b>3VL4731-1EM46</b> □-□□□□	1	1 unit	113	7,400
	400	320 ... 400	2000 ... 4000	<b>3VL4740-1EM46</b> □-□□□□	1	1 unit	113	7,400
VL630/3VL5	315	250 ... 315	1575 ... 3150	<b>3VL5731-1EM46</b> □-□□□□	1	1 unit	113	11,200
	400	320 ... 400	2000 ... 4000	<b>3VL5740-1EM46</b> □-□□□□	1	1 unit	113	11,200
	500	400 ... 500	2500 ... 5000	<b>3VL5750-1EM46</b> □-□□□□	1	1 unit	113	11,200
	630	500 ... 630	3150 ... 6300	<b>3VL5763-1EM46</b> □-□□□□	1	1 unit	113	11,200



#### System 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	<b>3VL2712-1EC4</b> □-□□□□	1	1 unit	113	3,000
	160	125 ... 160	800 ... 1600	<b>3VL2716-1EC4</b> □-□□□□	1	1 unit	113	3,000
VL250/3VL3	200	160 ... 200	1000 ... 2000	<b>3VL3720-1EC4</b> □-□□□□	1	1 unit	113	3,200
	250	200 ... 250	1250 ... 2500	<b>3VL3725-1EC4</b> □-□□□□	1	1 unit	113	3,200

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	<b>3VL4720-1EC46</b> □-□□□□	1	1 unit	113	7,400
	250	200 ... 250	1250 ... 2500	<b>3VL4725-1EC46</b> □-□□□□	1	1 unit	113	7,400
	315	250 ... 315	1575 ... 3150	<b>3VL4731-1EC46</b> □-□□□□	1	1 unit	113	7,400
	400	320 ... 400	2000 ... 4000	<b>3VL4740-1EC46</b> □-□□□□	1	1 unit	113	7,400
VL630/3VL5	315	250 ... 315	1575 ... 3150	<b>3VL5731-1EC46</b> □-□□□□	1	1 unit	113	11,200
	400	320 ... 400	2000 ... 4000	<b>3VL5740-1EC46</b> □-□□□□	1	1 unit	113	11,200
	500	400 ... 500	2500 ... 5000	<b>3VL5750-1EC46</b> □-□□□□	1	1 unit	113	11,200
	630	500 ... 630	3150 ... 6300	<b>3VL5763-1EC46</b> □-□□□□	1	1 unit	113	11,200

# Molded Case Circuit Breakers

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

4-pole

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
3VL2705-2EM4□-□□□□		1	1 unit	113	3.000	3VL2705-3EM4□-□□□□		1	1 unit	113	3.000
3VL2706-2EM4□-□□□□		1	1 unit	113	3.000	3VL2706-3EM4□-□□□□		1	1 unit	113	3.000
3VL2708-2EM4□-□□□□		1	1 unit	113	3.000	3VL2708-3EM4□-□□□□		1	1 unit	113	3.000
3VL2710-2EM4□-□□□□		1	1 unit	113	3.000	3VL2710-3EM4□-□□□□		1	1 unit	113	3.000
3VL2712-2EM4□-□□□□		1	1 unit	113	3.000	3VL2712-3EM4□-□□□□		1	1 unit	113	3.000
3VL2716-2EM4□-□□□□		1	1 unit	113	3.000	3VL2716-3EM4□-□□□□		1	1 unit	113	3.000
3VL3720-2EM4□-□□□□		1	1 unit	113	3.200	3VL3720-3EM4□-□□□□		1	1 unit	113	3.200
3VL3725-2EM4□-□□□□		1	1 unit	113	3.200	3VL3725-3EM4□-□□□□		1	1 unit	113	3.200
3 6						3 6					
3VL4720-2EM46-□□□□		1	1 unit	113	7.400	3VL4720-3EM46-□□□□		1	1 unit	113	7.400
3VL4725-2EM46-□□□□		1	1 unit	113	7.400	3VL4725-3EM46-□□□□		1	1 unit	113	7.400
3VL4731-2EM46-□□□□		1	1 unit	113	7.400	3VL4731-3EM46-□□□□		1	1 unit	113	7.400
3VL4740-2EM46-□□□□		1	1 unit	113	7.400	3VL4740-3EM46-□□□□		1	1 unit	113	7.400
3VL5731-2EM46-□□□□		1	1 unit	113	11.200	3VL5731-3EM46-□□□□		1	1 unit	113	11.200
3VL5740-2EM46-□□□□		1	1 unit	113	11.200	3VL5740-3EM46-□□□□		1	1 unit	113	11.200
3VL5750-2EM46-□□□□		1	1 unit	113	11.200	3VL5750-3EM46-□□□□		1	1 unit	113	11.200
3VL5763-2EM46-□□□□		1	1 unit	113	11.200	3VL5763-3EM46-□□□□		1	1 unit	113	11.200
3 6						3 6					
3VL2712-2EC4□-□□□□		1	1 unit	113	3.000	3VL2712-3EC4□-□□□□		1	1 unit	113	3.000
3VL2716-2EC4□-□□□□		1	1 unit	113	3.000	3VL2716-3EC4□-□□□□		1	1 unit	113	3.000
3VL3720-2EC4□-□□□□		1	1 unit	113	3.200	3VL3720-3EC4□-□□□□		1	1 unit	113	3.200
3VL3725-2EC4□-□□□□		1	1 unit	113	3.200	3VL3725-3EC4□-□□□□		1	1 unit	113	3.200
3 6						3 6					
3VL4720-2EC46-□□□□		1	1 unit	113	7.400	3VL4720-3EC46-□□□□		1	1 unit	113	7.400
3VL4725-2EC46-□□□□		1	1 unit	113	7.400	3VL4725-3EC46-□□□□		1	1 unit	113	7.400
3VL4731-2EC46-□□□□		1	1 unit	113	7.400	3VL4731-3EC46-□□□□		1	1 unit	113	7.400
3VL4740-2EC46-□□□□		1	1 unit	113	7.400	3VL4740-3EC46-□□□□		1	1 unit	113	7.400
3VL5731-2EC46-□□□□		1	1 unit	113	11.200	3VL5731-3EC46-□□□□		1	1 unit	113	11.200
3VL5740-2EC46-□□□□		1	1 unit	113	11.200	3VL5740-3EC46-□□□□		1	1 unit	113	11.200
3VL5750-2EC46-□□□□		1	1 unit	113	11.200	3VL5750-3EC46-□□□□		1	1 unit	113	11.200
3VL5763-2EC46-□□□□		1	1 unit	113	11.200	3VL5763-3EC46-□□□□		1	1 unit	113	11.200

\* You can order this quantity or a multiple thereof.

# Molded Case Circuit Breakers

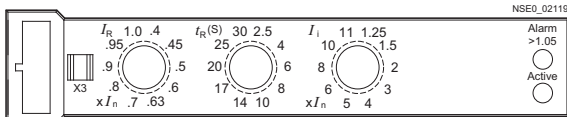
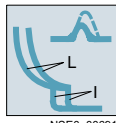
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

#### 4-pole, fixed-mounted, for system 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 4th pole (N)

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	<b>3VL2706-1□□4□-□□□□</b>	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... 11 × $I_n$	<b>3VL2710-1□□4□-□□□□</b>	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... 11 × $I_n$	<b>3VL2716-1□□4□-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	<b>3VL3720-1□□4□-□□□□</b>	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... 11 × $I_n$	<b>3VL3725-1□□4□-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

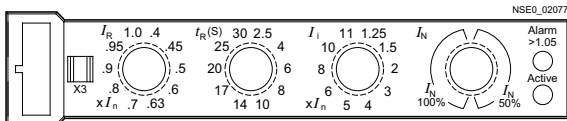
3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	<b>3VL4731-1□□46-□□□□</b>	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... 11 × $I_n$	<b>3VL4740-1□□46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<b>3VL5763-1□□46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<b>3VL6780-1□□46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	<b>3VL7710-1□□46-□□□□</b>	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... 11 × $I_n$	<b>3VL7712-1□□46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<b>3VL8716-1□□40-□□□□</b>	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TB  
NB

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



#### ETU10, LIN function

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

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	<b>3VL2706-1□□4□-□□□□</b>	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... 11 × $I_n$	<b>3VL2710-1□□4□-□□□□</b>	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... 11 × $I_n$	<b>3VL2716-1□□4□-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	<b>3VL3720-1□□4□-□□□□</b>	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... 11 × $I_n$	<b>3VL3725-1□□4□-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	<b>3VL4731-1□□46-□□□□</b>	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... 11 × $I_n$	<b>3VL4740-1□□46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	<b>3VL5763-1□□46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	<b>3VL6780-1□□46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	<b>3VL7710-1□□46-□□□□</b>	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... 11 × $I_n$	<b>3VL7712-1□□46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	<b>3VL8716-1□□40-□□□□</b>	1	1 unit	113	40.800

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

TA  
NA  
LA

<sup>1)</sup> 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

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
	Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3VL2706-2□□4□-□□□□	1	1 unit	113	3.100			3VL2706-3□□4□-□□□□	1	1 unit	113	3.100		
3VL2710-2□□4□-□□□□	1	1 unit	113	3.100			3VL2710-3□□4□-□□□□	1	1 unit	113	3.100		
3VL2716-2□□4□-□□□□	1	1 unit	113	3.100			3VL2716-3□□4□-□□□□	1	1 unit	113	3.100		
3VL3720-2□□4□-□□□□	1	1 unit	113	3.300			3VL3720-3□□4□-□□□□	1	1 unit	113	3.300		
3VL3725-2□□4□-□□□□	1	1 unit	113	3.300			3VL3725-3□□4□-□□□□	1	1 unit	113	3.300		

3  
63  
6

3VL4731-2□□46-□□□□	1	1 unit	113	7.600			3VL4731-3□□46-□□□□	1	1 unit	113	7.600		
3VL4740-2□□46-□□□□	1	1 unit	113	7.600			3VL4740-3□□46-□□□□	1	1 unit	113	7.600		
3VL5763-2□□46-□□□□	1	1 unit	113	11.700			3VL5763-3□□46-□□□□	1	1 unit	113	11.700		
3VL6780-2□□46-□□□□	1	1 unit	113	20.500			3VL6780-3□□46-□□□□	1	1 unit	113	20.500		
3VL7710-2□□46-□□□□	1	1 unit	113	33.500			3VL7710-3□□46-□□□□	1	1 unit	113	33.500		
3VL7712-2□□46-□□□□	1	1 unit	113	33.500			3VL7712-3□□46-□□□□	1	1 unit	113	33.500		
3VL8716-2□□40-□□□□	1	1 unit	113	40.800			3VL8716-3□□40-□□□□	1	1 unit	113	40.800		

TB  
NBTB  
NB

3VL2706-2□□4□-□□□□	1	1 unit	113	3.100			3VL2706-3□□4□-□□□□	1	1 unit	113	3.100		
3VL2710-2□□4□-□□□□	1	1 unit	113	3.100			3VL2710-3□□4□-□□□□	1	1 unit	113	3.100		
3VL2716-2□□4□-□□□□	1	1 unit	113	3.100			3VL2716-3□□4□-□□□□	1	1 unit	113	3.100		
3VL3720-2□□4□-□□□□	1	1 unit	113	3.300			3VL3720-3□□4□-□□□□	1	1 unit	113	3.300		
3VL3725-2□□4□-□□□□	1	1 unit	113	3.300			3VL3725-3□□4□-□□□□	1	1 unit	113	3.300		

3  
63  
6

3VL4731-2□□46-□□□□	1	1 unit	113	7.600			3VL4731-3□□46-□□□□	1	1 unit	113	7.600		
3VL4740-2□□46-□□□□	1	1 unit	113	7.600			3VL4740-3□□46-□□□□	1	1 unit	113	7.600		
3VL5763-2□□46-□□□□	1	1 unit	113	11.700			3VL5763-3□□46-□□□□	1	1 unit	113	11.700		
3VL6780-2□□46-□□□□	1	1 unit	113	20.500			3VL6780-3□□46-□□□□	1	1 unit	113	20.500		
3VL7710-2□□46-□□□□	1	1 unit	113	33.500			3VL7710-3□□46-□□□□	1	1 unit	113	33.500		
3VL7712-2□□46-□□□□	1	1 unit	113	33.500			3VL7712-3□□46-□□□□	1	1 unit	113	33.500		
3VL8716-2□□40-□□□□	1	1 unit	113	40.800			3VL8716-3□□40-□□□□	1	1 unit	113	40.800		

TA  
NA  
LATA  
NA  
LA

Communication:

- For accessories, see page 2/93.

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

\* You can order this quantity or a multiple thereof.

# Molded Case Circuit Breakers

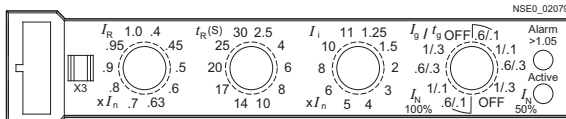
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	Ground-fault protection "G" $I_G$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A	A		Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.

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



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

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground-fault delay  $t_G = 0.1 \dots 0.3$  s, ground-fault protection (G) can be switched off with overcurrent and short-circuit release in 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	<b>3VL2706-1□□4□-□□□□</b>	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL2710-1□□4□-□□□□</b>	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL2716-1□□4□-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL3720-1□□4□-□□□□</b>	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL3725-1□□4□-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL4731-1□□46-□□□□</b>	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL4740-1□□46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL5763-1□□46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL6780-1□□46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL7710-1□□46-□□□□</b>	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL7712-1□□46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$ , OFF	<b>3VL8716-1□□40-□□□□</b>	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TN  
NN

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".



# Molded Case Circuit Breakers

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

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg	Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
3VL2706-2□□4□-□□□□		1	1 unit	113	3.100	3VL2706-3□□4□-□□□□		1	1 unit	113	3.100
3VL2710-2□□4□-□□□□		1	1 unit	113	3.100	3VL2710-3□□4□-□□□□		1	1 unit	113	3.100
3VL2716-2□□4□-□□□□		1	1 unit	113	3.100	3VL2716-3□□4□-□□□□		1	1 unit	113	3.100
3VL3720-2□□4□-□□□□		1	1 unit	113	3.300	3VL3720-3□□4□-□□□□		1	1 unit	113	3.300
3VL3725-2□□4□-□□□□		1	1 unit	113	3.300	3VL3725-3□□4□-□□□□		1	1 unit	113	3.300
3 6						3 6					
3VL4731-2□□46-□□□□		1	1 unit	113	7.600	3VL4731-3□□46-□□□□		1	1 unit	113	7.600
3VL4740-2□□46-□□□□		1	1 unit	113	7.600	3VL4740-3□□46-□□□□		1	1 unit	113	7.600
3VL5763-2□□46-□□□□		1	1 unit	113	11.700	3VL5763-3□□46-□□□□		1	1 unit	113	11.700
3VL6780-2□□46-□□□□		1	1 unit	113	20.500	3VL6780-3□□46-□□□□		1	1 unit	113	20.500
3VL7710-2□□46-□□□□		1	1 unit	113	33.500	3VL7710-3□□46-□□□□		1	1 unit	113	33.500
3VL7712-2□□46-□□□□		1	1 unit	113	33.500	3VL7712-3□□46-□□□□		1	1 unit	113	33.500
3VL8716-2□□40-□□□□		1	1 unit	113	40.800	3VL8716-3□□40-□□□□		1	1 unit	113	40.800
TN NN						TN NN					

# Molded Case Circuit Breakers

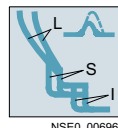
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

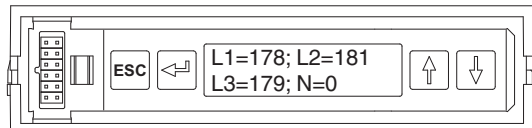
### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instan- taneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
	A	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg

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



NSE0\_00696



NSE0\_02129

#### 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 and short-circuit release in 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63 <sup>2)</sup>	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2706-1UJ4</b> □-□□□□	1	1 unit	113	3.100
	100 <sup>2)</sup>	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2710-1UJ4</b> □-□□□□	1	1 unit	113	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2716-1UJ4</b> □-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3720-1UJ4</b> □-□□□□	1	1 unit	113	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3725-1UJ4</b> □-□□□□	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4731-1UJ46</b> □-□□□□	1	1 unit	113	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4740-1UJ46</b> □-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	<b>3VL5763-1UJ46</b> □-□□□□	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	<b>3VL6780-1UJ46</b> □-□□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7710-1UJ46</b> □-□□□□	1	1 unit	113	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7712-1UJ46</b> □-□□□□	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	<b>3VL8716-1UJ40</b> □-□□□□	1	1 unit	113	40.800

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

<sup>2)</sup> N = 100 % protection for  $I_n \leq 100$  A.

# Molded Case Circuit Breakers

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

4-pole

2

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H)						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L)					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/58						Article No. supplement, see page 2/58					
kg						kg					

<b>3VL2706-2UJ4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2706-3UJ4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL2710-2UJ4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2710-3UJ4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL2716-2UJ4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2716-3UJ4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL3720-2UJ4□-□□□□</b>	1	1 unit	113	3.300	<b>3VL3720-3UJ4□-□□□□</b>	1	1 unit	113	3.300
<b>3VL3725-2UJ4□-□□□□</b>	1	1 unit	113	3.300	<b>3VL3725-3UJ4□-□□□□</b>	1	1 unit	113	3.300

3  
63  
6

<b>3VL4731-2UJ46-□□□□</b>	1	1 unit	113	7.600	<b>3VL4731-3UJ46-□□□□</b>	1	1 unit	113	7.600
<b>3VL4740-2UJ46-□□□□</b>	1	1 unit	113	7.600	<b>3VL4740-3UJ46-□□□□</b>	1	1 unit	113	7.600
<b>3VL5763-2UJ46-□□□□</b>	1	1 unit	113	11.700	<b>3VL5763-3UJ46-□□□□</b>	1	1 unit	113	11.700
<b>3VL6780-2UJ46-□□□□</b>	1	1 unit	113	20.500	<b>3VL6780-3UJ46-□□□□</b>	1	1 unit	113	20.500
<b>3VL7710-2UJ46-□□□□</b>	1	1 unit	113	33.500	<b>3VL7710-3UJ46-□□□□</b>	1	1 unit	113	33.500
<b>3VL7712-2UJ46-□□□□</b>	1	1 unit	113	33.500	<b>3VL7712-3UJ46-□□□□</b>	1	1 unit	113	33.500
<b>3VL8716-2UJ40-□□□□</b>	1	1 unit	113	40.800	<b>3VL8716-3UJ40-□□□□</b>	1	1 unit	113	40.800

# Molded Case Circuit Breakers

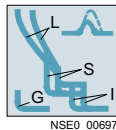
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

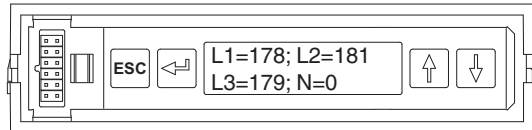
### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	Ground-fault protection <b>"G"</b> $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A	A	A		Article No. Article No. supplement, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

4-pole, fixed-mounted, for system 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  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s  
with overcurrent and short-circuit release in 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2706-1UN40-□□□□</b>	1	1 unit	113	3.100
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2710-1UN40-□□□□</b>	1	1 unit	113	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL2716-1UN40-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3720-1UN40-□□□□</b>	1	1 unit	113	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL3725-1UN40-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4731-1UN46-□□□□</b>	1	1 unit	113	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL4740-1UN46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL5763-1UN46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL6780-1UN46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7710-1UN46-□□□□</b>	1	1 unit	113	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL7712-1UN46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	<b>3VL8716-1UN40-□□□□</b>	1	1 unit	113	40.800

<sup>1)</sup> 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

DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>						DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>					
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Article No. supplement, see page 2/58						Article No. supplement, see page 2/58					
kg						kg					

<b>3VL2706-2UN4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2706-3UN4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL2710-2UN4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2710-3UN4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL2716-2UN4□-□□□□</b>	1	1 unit	113	3.100	<b>3VL2716-3UN4□-□□□□</b>	1	1 unit	113	3.100
<b>3VL3720-2UN4□-□□□□</b>	1	1 unit	113	3.300	<b>3VL3720-3UN4□-□□□□</b>	1	1 unit	113	3.300
<b>3VL3725-2UN4□-□□□□</b>	1	1 unit	113	3.300	<b>3VL3725-3UN4□-□□□□</b>	1	1 unit	113	3.300

3  
63  
6

<b>3VL4731-2UN46-□□□□</b>	1	1 unit	113	7.600	<b>3VL4731-3UN46-□□□□</b>	1	1 unit	113	7.600
<b>3VL4740-2UN46-□□□□</b>	1	1 unit	113	7.600	<b>3VL4740-3UN46-□□□□</b>	1	1 unit	113	7.600
<b>3VL5763-2UN46-□□□□</b>	1	1 unit	113	11.700	<b>3VL5763-3UN46-□□□□</b>	1	1 unit	113	11.700
<b>3VL6780-2UN46-□□□□</b>	1	1 unit	113	20.500	<b>3VL6780-3UN46-□□□□</b>	1	1 unit	113	20.500
<b>3VL7710-2UN46-□□□□</b>	1	1 unit	113	33.500	<b>3VL7710-3UN46-□□□□</b>	1	1 unit	113	33.500
<b>3VL7712-2UN46-□□□□</b>	1	1 unit	113	33.500	<b>3VL7712-3UN46-□□□□</b>	1	1 unit	113	33.500
<b>3VL8716-2UN40-□□□□</b>	1	1 unit	113	40.800	<b>3VL8716-3UN40-□□□□</b>	1	1 unit	113	40.800

# Molded Case Circuit Breakers

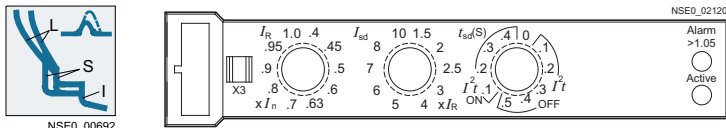
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)				
	A	A	A	A		Article No. Article No. supplement, see page 2/58	Price see page 2/56	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg

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



#### ETU20, LSI function for time-based discrimination

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

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2706-1□□4□-□□□□</b>	1	1 unit	113	3.100
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2710-1□□4□-□□□□</b>	1	1 unit	113	3.100
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2716-1□□4□-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3720-1□□4□-□□□□</b>	1	1 unit	113	3.300
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3725-1□□4□-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

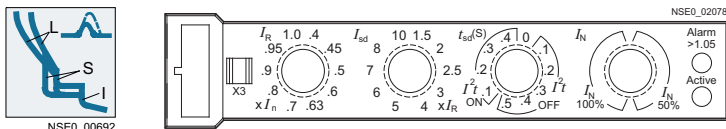
3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4731-1□□46-□□□□</b>	1	1 unit	113	7.600
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4740-1□□46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<b>3VL5763-1□□46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<b>3VL6780-1□□46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7710-1□□46-□□□□</b>	1	1 unit	113	33.500
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7712-1□□46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<b>3VL8716-1□□40-□□□□</b>	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TE  
NE

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



#### ETU20, LSIN function for time-based discrimination

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

VL160/3VL2	63	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2706-1□□4□-□□□□</b>	1	1 unit	113	3.100
	100	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2710-1□□4□-□□□□</b>	1	1 unit	113	3.100
	160	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL2716-1□□4□-□□□□</b>	1	1 unit	113	3.100
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3720-1□□4□-□□□□</b>	1	1 unit	113	3.300
	250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL3725-1□□4□-□□□□</b>	1	1 unit	113	3.300

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

- Connection with box terminal
- Connection with flat screw terminal

3  
6

VL400/3VL4	315	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4731-1□□46-□□□□</b>	1	1 unit	113	7.600
	400	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL4740-1□□46-□□□□</b>	1	1 unit	113	7.600
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	<b>3VL5763-1□□46-□□□□</b>	1	1 unit	113	11.700
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	<b>3VL6780-1□□46-□□□□</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7710-1□□46-□□□□</b>	1	1 unit	113	33.500
	1250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	<b>3VL7712-1□□46-□□□□</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	<b>3VL8716-1□□40-□□□□</b>	1	1 unit	113	40.800

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

TF  
NF  
LF

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

# Molded Case Circuit Breakers

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

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
	Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

	3VL2706-2□□4□-□□□□		1	1 unit	113	3.100		3VL2706-3□□4□-□□□□		1	1 unit	113	3.100
	3VL2710-2□□4□-□□□□		1	1 unit	113	3.100		3VL2710-3□□4□-□□□□		1	1 unit	113	3.100
	3VL2716-2□□4□-□□□□		1	1 unit	113	3.100		3VL2716-3□□4□-□□□□		1	1 unit	113	3.100
	3VL3720-2□□4□-□□□□		1	1 unit	113	3.300		3VL3720-3□□4□-□□□□		1	1 unit	113	3.300
	3VL3725-2□□4□-□□□□		1	1 unit	113	3.300		3VL3725-3□□4□-□□□□		1	1 unit	113	3.300



	3VL4731-2□□46-□□□□		1	1 unit	113	7.600		3VL4731-3□□46-□□□□		1	1 unit	113	7.600
	3VL4740-2□□46-□□□□		1	1 unit	113	7.600		3VL4740-3□□46-□□□□		1	1 unit	113	7.600
	3VL5763-2□□46-□□□□		1	1 unit	113	11.700		3VL5763-3□□46-□□□□		1	1 unit	113	11.700
	3VL6780-2□□46-□□□□		1	1 unit	113	20.500		3VL6780-3□□46-□□□□		1	1 unit	113	20.500
	3VL7710-2□□46-□□□□		1	1 unit	113	33.500		3VL7710-3□□46-□□□□		1	1 unit	113	33.500
	3VL7712-2□□46-□□□□		1	1 unit	113	33.500		3VL7712-3□□46-□□□□		1	1 unit	113	33.500
	3VL8716-2□□40-□□□□		1	1 unit	113	40.800		3VL8716-3□□40-□□□□		1	1 unit	113	40.800



	3VL2706-2□□4□-□□□□		1	1 unit	113	3.100		3VL2706-3□□4□-□□□□		1	1 unit	113	3.100
	3VL2710-2□□4□-□□□□		1	1 unit	113	3.100		3VL2710-3□□4□-□□□□		1	1 unit	113	3.100
	3VL2716-2□□4□-□□□□		1	1 unit	113	3.100		3VL2716-3□□4□-□□□□		1	1 unit	113	3.100
	3VL3720-2□□4□-□□□□		1	1 unit	113	3.300		3VL3720-3□□4□-□□□□		1	1 unit	113	3.300
	3VL3725-2□□4□-□□□□		1	1 unit	113	3.300		3VL3725-3□□4□-□□□□		1	1 unit	113	3.300



	3VL4731-2□□46-□□□□		1	1 unit	113	7.600		3VL4731-3□□46-□□□□		1	1 unit	113	7.600
	3VL4740-2□□46-□□□□		1	1 unit	113	7.600		3VL4740-3□□46-□□□□		1	1 unit	113	7.600
	3VL5763-2□□46-□□□□		1	1 unit	113	11.700		3VL5763-3□□46-□□□□		1	1 unit	113	11.700
	3VL6780-2□□46-□□□□		1	1 unit	113	20.500		3VL6780-3□□46-□□□□		1	1 unit	113	20.500
	3VL7710-2□□46-□□□□		1	1 unit	113	33.500		3VL7710-3□□46-□□□□		1	1 unit	113	33.500
	3VL7712-2□□46-□□□□		1	1 unit	113	33.500		3VL7712-3□□46-□□□□		1	1 unit	113	33.500
	3VL8716-2□□40-□□□□		1	1 unit	113	40.800		3VL8716-3□□40-□□□□		1	1 unit	113	40.800



\* You can order this quantity or a multiple thereof.





# Molded Case Circuit Breakers

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

4-pole

2

DT	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H					(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L					(L)
	Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Article No. supplement, see page 2/58					kg		Article No. supplement, see page 2/58					kg

<b>3VL2706-2□□4□-□□□□</b>	1	1 unit	113	3.100			<b>3VL2706-3□□4□-□□□□</b>	1	1 unit	113	3.100		
<b>3VL2710-2□□4□-□□□□</b>	1	1 unit	113	3.100			<b>3VL2710-3□□4□-□□□□</b>	1	1 unit	113	3.100		
<b>3VL2716-2□□4□-□□□□</b>	1	1 unit	113	3.100			<b>3VL2716-3□□4□-□□□□</b>	1	1 unit	113	3.100		
<b>3VL3720-2□□4□-□□□□</b>	1	1 unit	113	3.300			<b>3VL3720-3□□4□-□□□□</b>	1	1 unit	113	3.300		
<b>3VL3725-2□□4□-□□□□</b>	1	1 unit	113	3.300			<b>3VL3725-3□□4□-□□□□</b>	1	1 unit	113	3.300		

3  
63  
6

<b>3VL4731-2□□46-□□□□</b>	1	1 unit	113	7.600			<b>3VL4731-3□□46-□□□□</b>	1	1 unit	113	7.600		
<b>3VL4740-2□□46-□□□□</b>	1	1 unit	113	7.600			<b>3VL4740-3□□46-□□□□</b>	1	1 unit	113	7.600		
<b>3VL5763-2□□46-□□□□</b>	1	1 unit	113	11.700			<b>3VL5763-3□□46-□□□□</b>	1	1 unit	113	11.700		
<b>3VL6780-2□□46-□□□□</b>	1	1 unit	113	20.500			<b>3VL6780-3□□46-□□□□</b>	1	1 unit	113	20.500		
<b>3VL7710-2□□46-□□□□</b>	1	1 unit	113	33.500			<b>3VL7710-3□□46-□□□□</b>	1	1 unit	113	33.500		
<b>3VL7712-2□□46-□□□□</b>	1	1 unit	113	33.500			<b>3VL7712-3□□46-□□□□</b>	1	1 unit	113	33.500		
<b>3VL8716-2□□40-□□□□</b>	1	1 unit	113	40.800			<b>3VL8716-3□□40-□□□□</b>	1	1 unit	113	40.800		

TH  
NHTH  
NH

# Molded Case Circuit Breakers

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

2

### 4-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview".					
				Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A		Article No. supplement, see page 2/58					kg

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



#### Non-automatic molded case circuit breakers<sup>1)</sup>, I function

Without overcurrent releases, with non-adjustable short-circuit releases (for intrinsic protection only), without overcurrent and short-circuit release in 4th pole (N)

VL160X/3VL1	100 160	1800 1800	<b>3VL1710-1EE4□-□□□□</b> <b>3VL1716-1EE4□-□□□□</b>	1 1	1 unit 1 unit	113 113	2.500 2.500
VL160/3VL2	100 160	2500 2500	<b>3VL2710-1EE4□-□□□□</b> <b>3VL2716-1EE4□-□□□□</b>	1 1	1 unit 1 unit	113 113	3.000 3.000
VL250/3VL3	250	3500	<b>3VL3725-1EE4□-□□□□</b>	1	1 unit	113	3.200

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

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module at 3VL1 **6**

VL400/3VL4	400	4000	<b>3VL4740-1EE46-□□□□</b>	1	1 unit	113	7.400
VL630/3VL5	630	6300	<b>3VL5763-1EE46-□□□□</b>	1	1 unit	113	11.200
VL800/3VL6	800	6500	<b>3VL6780-1EE46-□□□□</b>	1	1 unit	113	19.900
VL1250/3VL7	1250	12000	<b>3VL7712-1EE46-□□□□</b>	1	1 unit	113	31.000
VL1600/3VL8 <sup>2)</sup>	1600	14400	<b>3VL8716-1EE40-□□□□</b>	1	1 unit	113	38.300

<sup>1)</sup> See also chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

<sup>2)</sup> 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

















DT $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="float: right;">(H)</span>							DT $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L <span style="float: right;">(L)</span>						
Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
						kg							kg
3VL1710-2EE4□-□□□□		1	1 unit	113	2.500		--						
3VL1716-2EE4□-□□□□		1	1 unit	113	2.500		--						
3VL2710-2EE4□-□□□□		1	1 unit	113	3.000		3VL2710-3EE4□-□□□□	1	1 unit	113	3.000	3.000	
3VL2716-2EE4□-□□□□		1	1 unit	113	3.000		3VL2716-3EE4□-□□□□	1	1 unit	113	3.000	3.000	
3VL3725-2EE4□-□□□□		1	1 unit	113	3.200		3VL3725-3EE4□-□□□□	1	1 unit	113	3.200	3.200	
3							3						
6							6						
3VL4740-2EE46-□□□□		1	1 unit	113	7.400		3VL4740-3EE46-□□□□	1	1 unit	113	7.400	7.400	
3VL5763-2EE46-□□□□		1	1 unit	113	11.200		3VL5763-3EE46-□□□□	1	1 unit	113	11.200	11.200	
3VL6780-2EE46-□□□□		1	1 unit	113	19.900		3VL6780-3EE46-□□□□	1	1 unit	113	19.900	19.900	
3VL7712-2EE46-□□□□		1	1 unit	113	31.000		3VL7712-3EE46-□□□□	1	1 unit	113	31.000	31.000	
3VL8716-2EE40-□□□□		1	1 unit	113	38.300		3VL8716-3EE40-□□□□	1	1 unit	113	38.300	38.300	

# Molded Case Circuit Breakers

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

2

### 4-pole

Article No. supplement (for complete Article No., see pages 2/42 to 2/52) <b>3VL.7.. - .□□4.-....</b>	Breaking capacity	Type	VL160		VL250		VL400		VL630	VL800	VL1250	VL1600		
			3VL2		3VL3		3VL4		3VL5	3VL6	3VL7	3VL8		
			Rated current $I_n$											
Releases			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

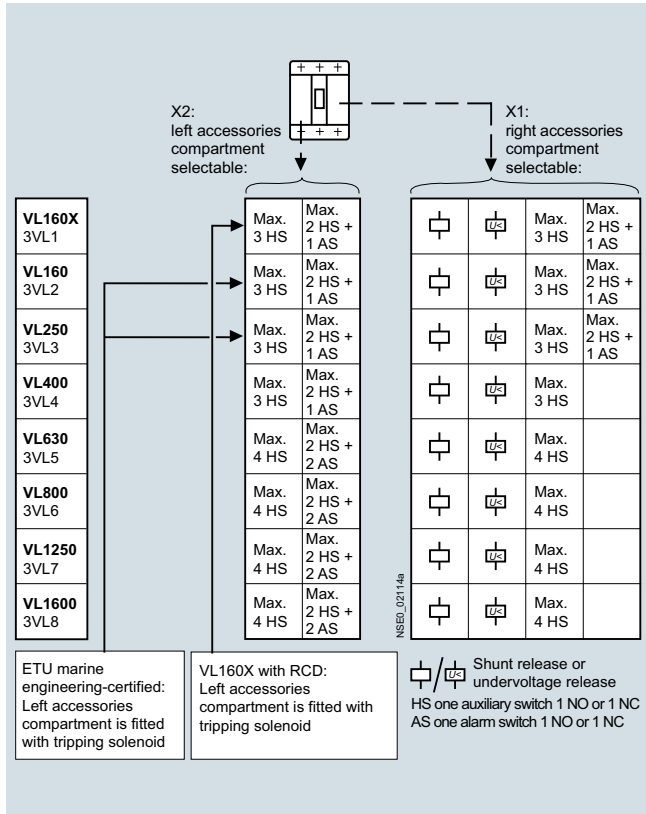
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# Molded Case Circuit Breakers

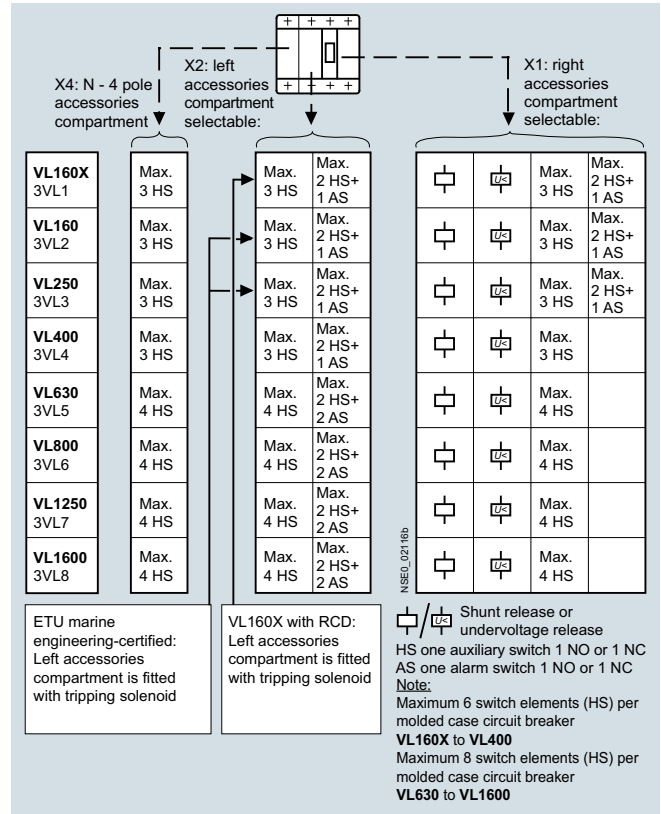
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

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

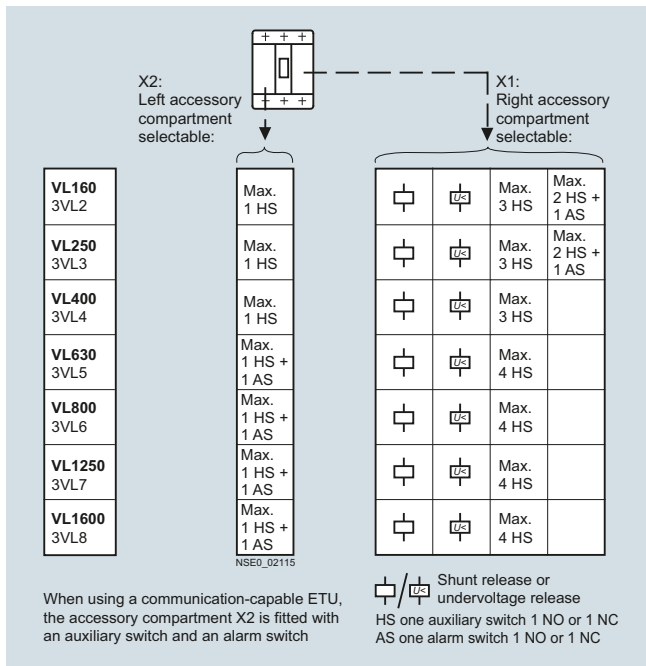
#### 3-pole circuit breakers without communication preparation



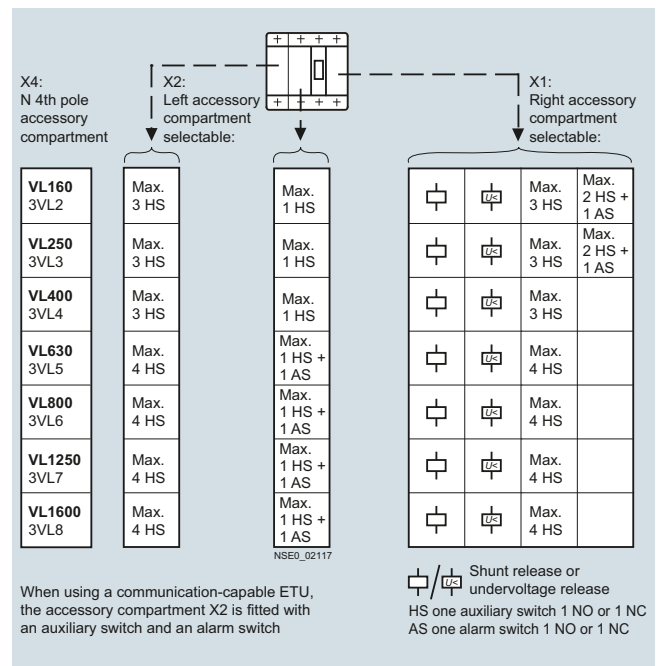
#### 4-pole circuit breakers without communication preparation



#### 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

2

### Options

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

Rated control supply voltage $U_g$ /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
<b>3- or 4-pole</b>			
<b>Without auxiliary release</b>		<b>0 A</b>	<b>None</b>
<b>With undervoltage releases</b>			
Only right pole			
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	✓
<b>With shunt releases</b>			
Only right pole			
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, directly wired 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 <sup>1)</sup> / 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
Without auxiliary/alarm switches		<b>A 0</b>	<b>None</b>
2 HS (1 NO/1 NC) <sup>2)</sup>		<b>B 1</b>	✓ <sup>1)4)</sup>
4 HS (2 NO/2 NC)		<b>C 1</b>	--
2 HS (1 NO/1 NC) + 1 AS (1 NO)		<b>D 1</b>	✓ <sup>1)4)</sup>
2 HS (1 NO/1 NC) + 1 AS (1 NO) <sup>3)</sup>		<b>E 1</b>	-- <sup>5)</sup>

-- Not available

✓ Additional price

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.

# Molded Case Circuit Breakers

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

### Selection and ordering data

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 circuit breakers (wired in factory)					
<b>3- or 4-pole</b>					
<b>Prewired internal accessories</b> Connecting cables (3 m long) brought out at the rear This option "L02" can be selected only in combination with internal accessories (page 2/58).	For VL160X to VL1600 (3VL1 to 3VL8)	<b>L 0 2</b>			✓
<b>Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO)</b> 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)	<b>L 1 2</b>			✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC)</b> Motorized operating mechanism not prewired; 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) <sup>1)</sup>	<b>M 2 4</b>			✓ ✓ ✓ ✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (42 ... 48 V AC/DC)</b> Motorized operating mechanism not prewired; 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) <sup>1)</sup>	<b>M 4 2</b>			✓ ✓ ✓ ✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 V AC/DC)</b> Motorized operating mechanism not prewired; 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) <sup>1)</sup>	<b>M 6 0</b>			✓ ✓ ✓ ✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (110 ... 127 V AC/DC)</b> Motorized operating mechanism not prewired; 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) <sup>1)</sup>	<b>M 1 1</b>			✓ ✓ ✓ ✓
<b>Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (220 ... 250 V AC/DC)</b> Motorized operating mechanism not prewired; 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) <sup>1)</sup>	<b>M 2 2</b>			✓ ✓ ✓ ✓

✓ Additional price

<sup>1)</sup> 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

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### 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 circuit breakers (wired in factory)

##### 3- or 4-pole

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

✓ Additional price



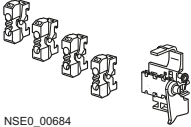
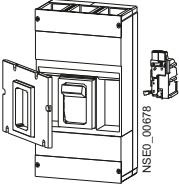
# Molded Case Circuit Breakers

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

Accessories and spare parts

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## Selection and ordering data

Wiring directly to accessories		DT	For VL160X to VL400 (3VL1 to 3VL4)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
		Article No.	Price per PU				kg	
<b>Auxiliary switches and auxiliary releases</b>								
<b>3- or 4-pole</b>								
For retrofitting (for possible complements see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .)								
<b>Auxiliary switches (HS) and alarm switches (AS)</b>								
For retrofitting								
 NSE0_00684 3VL9400-2A.00	Assembly kits		Mounting side					
	2 HS (1 NO + 1 NC)	N, left <sup>1)</sup> , right	<b>3VL9400-2AB00</b>	1	1 unit	113	0.056	
	4 HS (2 NO + 2 NC)	N, left <sup>1)</sup> , right	--					
	2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	left <sup>1)</sup> , right <sup>3)</sup> left <sup>1)</sup>	<b>3VL9400-2AD00</b> --	1	1 unit	113	0.084	
Additional auxiliary switch/alarm switch combinations				See page 2/63.				
<b>Shunt releases<sup>2)</sup></b>								
For retrofitting								
 NSE0_00776 3VL9400-1S.00, 3VL9400-1U.00	V AC	V DC	Mounting side					
	24	24	Right pole only	<b>3VL9400-1SC00</b>	1	1 unit	113	0.100
	--	48 ... 60	Right pole only	<b>3VL9400-1SJ00</b>	1	1 unit	113	0.103
	--	110 ... 127	Right pole only	<b>3VL9400-1SK00</b>	1	1 unit	113	0.099
	--	220 ... 250	Right pole only	<b>3VL9400-1SQ00</b>	1	1 unit	113	0.098
	48 ... 60	--	Right pole only	<b>3VL9400-1SM00</b>	1	1 unit	113	0.103
	110 ... 127	--	Right pole only	<b>3VL9400-1SR00</b>	1	1 unit	113	0.101
	208 ... 277	--	Right pole only	<b>3VL9400-1ST00</b>	1	1 unit	113	0.097
	380 ... 600	--	Right pole only	<b>3VL9400-1SV00</b>	1	1 unit	113	0.106
	<b>Undervoltage releases</b>							
For retrofitting								
V AC	V DC	Mounting side						
--	12	Right pole only	<b>3VL9400-1UN00</b>	1	1 unit	113	0.080	
--	24	Right pole only	<b>3VL9400-1UP00</b>	1	1 unit	113	0.099	
--	48	Right pole only	<b>3VL9400-1UU00</b>	1	1 unit	113	0.100	
--	60	Right pole only	<b>3VL9400-1UV00</b>	1	1 unit	113	0.098	
24	--	Right pole only	<b>3VL9400-1UD00</b>	1	1 unit	113	0.104	
110 ... 127	--	Right pole only	<b>3VL9400-1UG00</b>	1	1 unit	113	0.104	
--	110 ... 127	Right pole only	<b>3VL9400-1UR00</b>	1	1 unit	113	0.099	
208	--	Right pole only	<b>3VL9400-1UM00</b>	1	1 unit	113	0.103	
220 ... 250	--	Right pole only	<b>3VL9400-1UH00</b>	1	1 unit	113	0.105	
--	220 ... 250	Right pole only	<b>3VL9400-1US00</b>	1	1 unit	113	0.102	
277	--	Right pole only	<b>3VL9400-1UQ00</b>	1	1 unit	113	0.100	
380 ... 415	--	Right pole only	<b>3VL9400-1UJ00</b>	1	1 unit	113	0.103	
440 ... 480	--	Right pole only	<b>3VL9400-1UK00</b>	1	1 unit	113	0.103	
500 ... 525	--	Right pole only	<b>3VL9400-1UL00</b>	1	1 unit	113	0.103	
<b>Time-delay devices for undervoltage releases (220 ... 250 V DC)</b>								
Rated control supply voltage $U_s$ 220 ... 250 V AC								
Delay time > 200 ms								
				<b>3TX4701-0AN1</b>	1	1 unit	41B	0.168
<b>Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)</b>								
Rated control supply voltage $U_s$ 220 V ... 240 V AC/220 V ... 250 V DC								
Storage time 5 min								
				<b>3WL9111-0BA14-0AA0</b>	1	1 unit	103	0.520

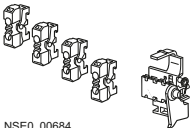
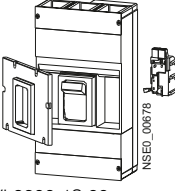
- 1) Except for installation in the left accessory compartment of the VL160X (3VL1) molded case circuit breakers with RCD module.
- 2) Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)).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

# Molded Case Circuit Breakers

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

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### Accessories and spare parts

Wiring directly to accessories		DT	For VL630 up to VL1600 (3VL5 to 3VL8)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			Article No.	Price per PU			kg
<b>Auxiliary switches and auxiliary releases</b>							
<b>3- or 4-pole</b>							
For retrofitting (for possible complements see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .)							
<b>Auxiliary switches (HS) and alarm switches (AS)</b>							
For retrofitting							
 NSE0_00684 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	<b>3VL9800-2AC00</b>		1	1 unit	113 0.088
	2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	-- <b>3VL9800-2AE00</b>		1	1 unit	113 0.085
Additional auxiliary switch/alarm switch combinations			See page 2/63.				
<b>Shunt releases<sup>1)</sup></b>							
For retrofitting							
 NSE0_00678 3VL9800-1S.00, 3VL9800-1U.00	V AC	V DC	Mounting side				
	24	24	Right pole only	<b>3VL9800-1SC00</b>		1	1 unit 113 0.151
	--	48 ... 60	Right pole only	<b>3VL9800-1SJ00</b>		1	1 unit 113 0.150
	--	110 ... 127	Right pole only	<b>3VL9800-1SK00</b>		1	1 unit 113 0.153
	--	220 ... 250	Right pole only	<b>3VL9800-1SQ00</b>		1	1 unit 113 0.150
	48 ... 60	--	Right pole only	<b>3VL9800-1SM00</b>		1	1 unit 113 0.150
	110 ... 127	--	Right pole only	<b>3VL9800-1SR00</b>		1	1 unit 113 0.155
	208 ... 277	--	Right pole only	<b>3VL9800-1ST00</b>		1	1 unit 113 0.147
	380 ... 600	--	Right pole only	<b>3VL9800-1SV00</b>		1	1 unit 113 0.150
	<b>Undervoltage releases</b>						
For retrofitting							
V AC	V DC	Mounting side					
--	12	Right pole only	<b>3VL9800-1UN00</b>		1	1 unit 113 0.114	
--	24	Right pole only	<b>3VL9800-1UP00</b>		1	1 unit 113 0.119	
--	48	Right pole only	<b>3VL9800-1UU00</b>		1	1 unit 113 0.114	
--	60	Right pole only	<b>3VL9800-1UV00</b>		1	1 unit 113 0.115	
24	--	Right pole only	<b>3VL9800-1UD00</b>		1	1 unit 113 0.118	
110 ... 127	--	Right pole only	<b>3VL9800-1UG00</b>		1	1 unit 113 0.114	
--	110 ... 127	Right pole only	<b>3VL9800-1UR00</b>		1	1 unit 113 0.115	
208	--	Right pole only	<b>3VL9800-1UM00</b>		1	1 unit 113 0.114	
220 ... 250	--	Right pole only	<b>3VL9800-1UH00</b>		1	1 unit 113 0.114	
--	220 ... 250	Right pole only	<b>3VL9800-1US00</b>		1	1 unit 113 0.114	
277	--	Right pole only	<b>3VL9800-1UQ00</b>		1	1 unit 113 0.138	
380 ... 415	--	Right pole only	<b>3VL9800-1UJ00</b>		1	1 unit 113 0.115	
440 ... 480	--	Right pole only	<b>3VL9800-1UK00</b>		1	1 unit 113 0.115	
500 ... 525	--	Right pole only	<b>3VL9800-1UL00</b>		1	1 unit 113 0.116	
<b>Time-delay devices for undervoltage releases (220 ... 250 V DC)</b>							
Rated control supply voltage $U_s$ 220 ... 250 V AC							
Delay time > 200 ms			<b>3TX4701-0AN1</b>		1	1 unit 41B	0.168
<b>Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)</b>							
Rated control supply voltage $U_s$ 220 V ... 240 V AC/220 V ... 250 V DC							
Storage time 5 min			<b>3WL9111-0BA14-0AA0</b>		1	1 unit 103	0.520

<sup>1)</sup> Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/product-support](http://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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For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type								kg
<b>3SB adapters and 3SB contact blocks</b>								
<b>Mounting adapters for auxiliary and alarm switch combinations</b>								
<b>For installation in the N pole of the circuit breaker</b>								
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	113	0.038
	2 HS + 1 AS <sup>1)2)</sup>		--					
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	113	0.055
	2 HS + 2 AS		--					
<b>For installation in the left pole of the circuit breaker</b>								
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	113	0.038
	2 HS + 1 AS <sup>1)2)</sup>		<b>3VL9400-2AJ10</b>		1	1 unit	113	0.037
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	113	0.055
	2 HS + 2 AS		<b>3VL9816-2AN10</b>		1	1 unit	113	0.058
<b>For installation in the right pole of the circuit breaker</b>								
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) <sup>2)</sup>	Up to 3 HS <sup>1)</sup>		<b>3VL9400-2AH00</b>		1	1 unit	113	0.038
	2 HS + 1 AS <sup>1)2)</sup>		<b>3VL9400-2AJ20</b>		1	1 unit	113	0.039
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		<b>3VL9816-2AL00</b>		1	1 unit	113	0.055
	2 HS + 2 AS		--					

<sup>1)</sup> Except for installing in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.

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

For auxiliary/alarm switches	DT	Circuit breakers Type	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Article No.	Price per PU			kg
<b>Contact blocks for auxiliary and alarm switch combinations</b>						
1 NO		<b>3SB3400-0J</b>		1	1 unit	41J 0.009
1 NC		<b>3SB3400-0K</b>		1	1 unit	41J 0.009

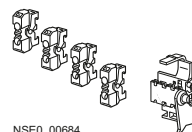
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

1 HS or 1 AS with NO contact 3SB34 00-0J  
1 HS or 1 AS with NC contact 3SB34 00-0K

#### 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.



NSE0\_00684

For retrofitting/possible complement see Technical Information at

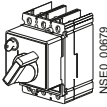
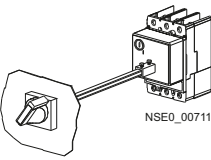
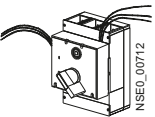
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support).

# Molded Case Circuit Breakers

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

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### Accessories and spare parts

Version	DT	For VL160X to VL250 (3VL1 to 3VL3) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Operating mechanisms</b>							
 NSE0_00679 3VL9.00-3H.00	<b>3- or 4-pole</b> <b>Front-operated rotary operating mechanisms<sup>1)</sup></b> For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>2)</sup> , <u>black</u> , max. 3 padlocks <u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate Safety locks for installation by the customer <a href="#">see pages 2/86 to 2/90</a> .		<b>3VL9300-3HA00</b>	1	1 unit	113	0.534
	<b>3VL9300-3HC00</b>		1	1 unit	113	0.500	
<b>Front-operated rotary operating mechanisms with shaft stub, without knob<sup>1)</sup></b> Without leading auxiliary switch, for auxiliary switches <a href="#">see below</a> .		<b>3VL9300-3HE00</b>	1	1 unit	113	0.415	
 NSE0_00711 3VL9.00-3H.05	<b>Door-coupling rotary operating mechanisms, complete<sup>1)</sup>; Installation in doors and covers</b> Degree of protection IP65, including handle ti-grey, with masking plate, indicator plate, removable door coupling (die cast with reduced tolerance compensation), extension shaft (8 × 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 <u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer <a href="#">see pages 2/86 to 2/90</a> .		<b>3VL9300-3HF05</b>	1	1 unit	113	0.800
	<b>3VL9300-3HG05</b>		1	1 unit	113	0.800	
 NSE0_00712 3VL9.00-3A.10	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism</b> Standard or EMERGENCY-STOP version <u>"OFF after ON"</u> Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables <u>"ON after OFF"</u> Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		<b>3VL9300-3AS10</b>	1	1 unit	113	0.100
			<b>3VL9300-3AT10</b>	1	1 unit	113	0.150
			<b>3VL9300-3AU10</b>	1	1 unit	113	0.105
			<b>3VL9300-3AW10</b>	1	1 unit	113	0.155
<b>Side panel rotary operating mech., complete<sup>1)</sup></b> Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden wire, lockable with up to 3 padlocks - With 600 mm Bowden wire - With 1000 mm Bowden wire - With 1500 mm Bowden wire		<b>3VL9300-3HR10</b>	1	1 unit	113	1.758	
		<b>3VL9300-3HR20</b>	1	1 unit	113	2.100	
		<b>3VL9300-3HR30</b>	1	1 unit	113	1.900	
<b>Side panel rotary operating mech., complete<sup>1)</sup></b> <u>EMERGENCY-STOP version</u> Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden wire, lockable with up to 3 padlocks - With 600 mm Bowden wire - With 1000 mm Bowden wire - With 1500 mm Bowden wire		<b>3VL9300-3HR11</b>	1	1 unit	113	2.100	
		<b>3VL9300-3HR21</b>	1	1 unit	113	2.100	
		<b>3VL9300-3HR31</b>	1	1 unit	113	2.100	
<b>Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete</b> Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm - for 6 mm shaft		<b>3VL9300-3HP02</b>	1	1 unit	113	0.409	
		<b>3VL9300-3HP00</b>	1	1 unit	113	0.385	

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/69 and 2/71](#).

<sup>1)</sup> Not possible on VL160X with RCD module.

<sup>2)</sup> IP40 with additional masking frame mounted on the door cutout.

# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

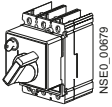
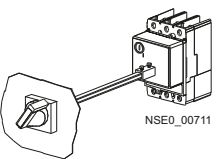
DT	For VL400 (3VL4)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL630 (3VL5)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Article No.						Article No.				
	<b>3VL9400-3HA00</b>	1	1 unit	113	1.281		<b>3VL9600-3HA00</b>	1	1 unit	113	1.373
	<b>3VL9400-3HC00</b>	1	1 unit	113	1.291		<b>3VL9600-3HC00</b>	1	1 unit	113	1.404
	<b>3VL9400-3HE00</b>	1	1 unit	113	1.050		<b>3VL9600-3HE00</b>	1	1 unit	113	1.310
	<b>3VL9400-3HF05</b>	1	1 unit	113	1.510		<b>3VL9600-3HF05</b>	1	1 unit	113	1.660
	<b>3VL9400-3HG05</b>	1	1 unit	113	1.640		<b>3VL9600-3HG05</b>	1	1 unit	113	1.640
	<b>3VL9400-3AS10</b>	1	1 unit	113	0.096		<b>3VL9600-3AS10</b>	1	1 unit	113	0.101
	<b>3VL9400-3AT10</b>	1	1 unit	113	0.147		<b>3VL9600-3AT10</b>	1	1 unit	113	0.151
	<b>3VL9400-3AU10</b>	1	1 unit	113	0.101		<b>3VL9600-3AU10</b>	1	1 unit	113	0.096
	<b>3VL9400-3AW10</b>	1	1 unit	113	0.155		<b>3VL9600-3AW10</b>	1	1 unit	113	0.150
	<b>3VL9400-3HR10</b>	1	1 unit	113	2.640		<b>3VL9500-3HR10</b>	1	1 unit	113	2.852
	<b>3VL9400-3HR20</b>	1	1 unit	113	2.657		<b>3VL9500-3HR20</b>	1	1 unit	113	2.852
	<b>3VL9400-3HR30</b>	1	1 unit	113	2.690		<b>3VL9500-3HR30</b>	1	1 unit	113	2.852
	<b>3VL9400-3HR11</b>	1	1 unit	113	2.619		<b>3VL9500-3HR11</b>	1	1 unit	113	2.870
	<b>3VL9400-3HR21</b>	1	1 unit	113	2.660		<b>3VL9500-3HR21</b>	1	1 unit	113	2.889
	<b>3VL9400-3HR31</b>	1	1 unit	113	3.500		<b>3VL9500-3HR31</b>	1	1 unit	113	2.940
	<b>3VL9400-3HP00</b>	1	1 unit	113	0.516		<b>3VL9600-3HP00</b>	1	1 unit	113	0.562
	--						--				

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL800 (3VL6)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
		Article No.	Price per PU				
<b>Operating mechanisms</b>							
<b>3- or 4-pole</b>							
 NSE0_00679 3VL9.00-3H.00	<b>Front-operated rotary operating mechanisms</b> For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> , max. 3 padlocks  EMERGENCY-STOP version Red knob, yellow indicator plate  Safety locks for installation by the customer <a href="#">see pages 2/86 to 2/90</a> .		<b>3VL9600-3HA00</b>  <b>3VL9600-3HC00</b>	1  1	1 unit  1 unit	113  113	1.373  1.404
	<b>Front-operated rotary operating mechanisms with shaft stub, without knob</b> Without leading auxiliary switch, for auxiliary switches <a href="#">see below</a> .		<b>3VL9600-3HE00</b>	1	1 unit	113	1.310
 NSE0_00711 3VL9.00-3H.05	<b>Door-coupling rotary operating mechanisms, complete, installation in doors and covers</b> Degree of protection IP65, including handle, ti-grey, 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  Safety locks for installation by the customer <a href="#">see pages 2/86 to 2/90</a> .		<b>3VL9600-3HF05</b>  <b>3VL9600-3HG05</b>	1  1	1 unit  1 unit	113  113	1.660  1.640
	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism</b> 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		<b>3VL9600-3AS10</b> <b>3VL9600-3AT10</b>  <b>3VL9600-3AU10</b> <b>3VL9600-3AW10</b>	1  1  1  1	1 unit  1 unit  1 unit  1 unit	113  113  113  113	0.101  0.151  0.096  0.150
<b>Retaining brackets suitable for matching door-coupling rotary operating mechanisms, complete</b>  Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm		<b>3VL9600-3HP00</b>	1	1 unit	113	0.562	

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/69 and 2/71](#).

<sup>1)</sup> IP40 with additional masking frame mounted on the door cutout.

# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

DT	For VL1250 to VL1600 (3VL7 to 3VL8) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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3VL9800-3HA00

1 1 unit 113 3.562

3VL9800-3HC00

1 1 unit 113 3.580

3VL9800-3HE00

1 1 unit 113 2.859

3VL9800-3HF05

1 1 unit 113 3.940

3VL9800-3HG05

1 1 unit 113 3.980

3VL9800-3AS20

1 1 unit 113 0.132

3VL9800-3AT20

1 1 unit 113 0.184

3VL9800-3AU10

1 1 unit 113 0.088

3VL9800-3AW10

1 1 unit 113 0.159

3VL9800-3HP00

1 1 unit 113 0.630

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Motorized operating mechanisms</b>							
<b>3- or 4-pole</b>							
<b>Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks<sup>1)2)</sup></b>							
Degree of protection IP30, with locking device for 3 padlocks							
50/60 Hz V AC		V DC					
--	24						
42 ... 48	42 ... 48						
60	60						
110 ... 127	110 ... 127						
220 ... 250	220 ... 250						
				<b>For VL160X to VL250 (3VL1 to 3VL3)</b>			
				<b>3VL9300-3MJ00</b>			
				1			
				1 unit			
				113			
				2.755			
				<b>3VL9300-3ML00</b>			
				1			
				1 unit			
				113			
				2.773			
				<b>3VL9300-3MS00</b>			
				1			
				1 unit			
				113			
				2.782			
				<b>3VL9300-3MN00</b>			
				1			
				1 unit			
				113			
				2.802			
				<b>3VL9300-3MQ00</b>			
				1			
				1 unit			
				113			
				2.802			
				<b>For VL400 (3VL4)</b>			
				<b>3VL9400-3MJ00</b>			
				1			
				1 unit			
				113			
				4.610			
				<b>3VL9400-3ML00</b>			
				1			
				1 unit			
				113			
				4.594			
				<b>3VL9400-3MS00</b>			
				1			
				1 unit			
				113			
				4.596			
				<b>3VL9400-3MN00</b>			
				1			
				1 unit			
				113			
				4.602			
				<b>3VL9400-3MQ00</b>			
				1			
				1 unit			
				113			
				4.593			
				<b>For VL630 and VL800 (3VL5 and 3VL6)</b>			
				<b>3VL9600-3MJ00</b>			
				1			
				1 unit			
				113			
				5.630			
				<b>3VL9600-3ML00</b>			
				1			
				1 unit			
				113			
				5.486			
				<b>3VL9600-3MS00</b>			
				1			
				1 unit			
				113			
				5.662			
				<b>3VL9600-3MN00</b>			
				1			
				1 unit			
				113			
				5.473			
				<b>3VL9600-3MQ00</b>			
				1			
				1 unit			
				113			
				5.639			
<b>Motorized operating mechanisms (MO)<sup>1)</sup></b>							
Degree of protection IP30, with locking device for 3 padlocks							
50/60 Hz V AC		V DC					
--	24						
42 ... 60	42 ... 60						
110 ... 127	110 ... 127						
220 ... 250	220 ... 250						
				<b>For VL160X (3VL1)</b>			
				<b>3VL9100-3MA10</b>			
				1			
				1 unit			
				113			
				1.807			
				<b>3VL9100-3MC10</b>			
				1			
				1 unit			
				113			
				1.790			
				<b>3VL9100-3MD10</b>			
				1			
				1 unit			
				113			
				1.770			
				<b>3VL9100-3ME10</b>			
				1			
				1 unit			
				113			
				1.802			
				<b>For VL160 and VL250 (3VL2 and 3VL3)</b>			
				<b>3VL9300-3MA10</b>			
				1			
				1 unit			
				113			
				1.800			
				<b>3VL9300-3MC10</b>			
				1			
				1 unit			
				113			
				1.799			
				<b>3VL9300-3MD10</b>			
				1			
				1 unit			
				113			
				1.797			
				<b>3VL9300-3ME10</b>			
				1			
				1 unit			
				113			
				1.805			
				<b>For VL400 (3VL4)</b>			
				<b>3VL9400-3MA10</b>			
				1			
				1 unit			
				113			
				2.298			
				<b>3VL9400-3MC10</b>			
				1			
				1 unit			
				113			
				2.330			
				<b>3VL9400-3MD10</b>			
				1			
				1 unit			
				113			
				2.320			
				<b>3VL9400-3ME10</b>			
				1			
				1 unit			
				113			
				2.325			
				<b>For VL630 and VL800 (3VL5 and 3VL6)</b>			
				<b>3VL9600-3MA10</b>			
				1			
				1 unit			
				113			
				2.310			
				<b>3VL9600-3MC10</b>			
				1			
				1 unit			
				113			
				2.261			
				<b>3VL9600-3MD10</b>			
				1			
				1 unit			
				113			
				2.329			
				<b>3VL9600-3ME10</b>			
				1			
				1 unit			
				113			
				2.332			
				<b>For VL1250 and VL1600<sup>2)</sup> (3VL7 and 3VL8)</b>			
				<b>3VL9800-3MJ00</b>			
				1			
				1 unit			
				113			
				7.910			
				<b>3VL9800-3ML00</b>			
				1			
				1 unit			
				113			
				7.945			
				<b>3VL9800-3MS00</b>			
				1			
				1 unit			
				113			
				7.945			
				<b>3VL9800-3MN00</b>			
				1			
				1 unit			
				113			
				7.861			
				<b>3VL9800-3MQ00</b>			
				1			
				1 unit			
				113			
				7.865			
<b>Toggle handle extensions</b>							
<b>Toggle handle extensions</b>							
<ul style="list-style-type: none"> <li>• for VL400 (3VL4)</li> <li>• for VL630 and VL800 (3VL5 and 3VL6)</li> <li>• for VL1,250 and VL1600 (3VL7 and 3VL8)</li> </ul>							
				<b>For VL400 up to VL1600 (3VL4 to 3VL8)</b>			
				<b>3VL9400-3HN00</b>			
				1			
				1 unit			
				113			
				0.023			
				<b>3VL9600-3HN00</b>			
				1			
				1 unit			
				113			
				0.029			
				<b>3VL9800-3HN00</b>			
				1			
				1 unit			
				113			
				0.251			

<sup>1)</sup> Not possible on VL160X with RCD module.

<sup>2)</sup> For safety lock as an assembly kit for retrofitting see pages 2/86 to 2/90.






# Molded Case Circuit Breakers

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

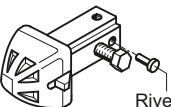
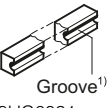
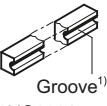
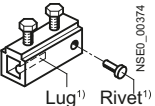

### Accessories and spare parts

2

Switching devices	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version <sup>1)</sup>	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	Type	mm × mm				Article No.	Price per PU			kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms<sup>2)</sup></b>										
<b>Handles with masking plate (including flat gasket and fixing screws)</b>										
	3VL1, 3VL2, 3VL3	8UC71	1	6 × 6 or 8 × 8	Standard EMERGENCY-STOP	<b>8UC7110-6BD</b> <b>8UC7120-8BD</b>	1	1 unit	103	0.185
8UC7110-1BB							1	1 unit	103	0.183
	3VL4, 3VL5, 3VL6	8UC72	2	8 × 8	Standard EMERGENCY-STOP	<b>8UC7210-6BD</b> <b>8UC7220-8BD</b>	1	1 unit	103	0.189
8UC7210-6BD							1	1 unit	103	0.194
	3VL7, 3VL8	8UC73	3	12 × 12	Standard EMERGENCY-STOP	<b>8UC7310-6BD</b> <b>8UC7320-8BD</b>	1	1 unit	103	0.507
8UC7310-1BB							1	1 unit	103	0.488

<sup>1)</sup> Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate.

<sup>2)</sup> Cannot be used for side panel rotary operating mechanisms

Rotary operating mechanisms	Cross-section of the actuating shaft	DT	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	mm × mm		Article No.	Price per PU			kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>							
<b>Coupling drivers for 3VL</b>							
	8UC71 (plastic) 8UC71/8UC72 <sup>2)</sup> (die cast) 8UC73/74 (die cast)	6 × 6 8 × 8 12 × 12	<b>8UC7011-2AA</b> <b>8UC6017-2AA</b> <b>8UC6014</b>	1	1 unit	103	0.051
8UC6014				1	1 unit	103	0.052
				1	1 unit	103	0.233
<b>Extension shafts 300 mm long</b>							
	8UC71 8UC71/8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	<b>8UC6031</b> <b>8UC6032</b> <b>8UC6033</b> <b>8UC6034</b>	1	1 unit	103	0.068
8UC6031				1	1 unit	103	0.135
				1	1 unit	103	0.215
				1	1 unit	103	0.316
<b>Extension shafts 600 mm long</b>							
	8UC71 8UC71/8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	<b>8UC6081</b> <b>8UC6082</b> <b>8UC6083</b> <b>8UC6084</b>	1	1 unit	103	0.136
8UC6081				1	1 unit	103	0.265
				1	1 unit	103	0.424
				1	1 unit	103	0.628
<b>Shaft couplings</b>							
	8UC71 8UC72 8UC73 8UC73/74	6 × 6 8 × 8 10 × 10 12 × 12	<b>8UC6021</b> <b>8UC6022</b> <b>8UC6023</b> <b>8UC6024</b>	1	1 unit	103	0.027
8UC6021 to 8UC6024				1	1 unit	103	0.022
				1	1 unit	103	0.083
				1	1 unit	103	0.078
<b>Reducers</b>							
	8UC71 8UC72	8 × 8 to 6 × 6 12 × 12 to 8 × 8	<b>8UC7058</b> <b>8UC7050</b>	1	1 unit	103	0.024
8UC7058				1	1 unit	103	0.081

<sup>1)</sup> Non-interchangeability features.

<sup>2)</sup> Shortened coupling driver with reduced tolerance compensation.

# Molded Case Circuit Breakers

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

2


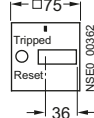
### Accessories and spare parts


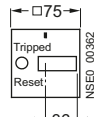
Switching devices	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
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Type	A	mm	Nm	Size
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#### 8UC door-coupling rotary operating mechanisms


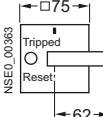
##### 8UC71 - 3VL circuit breakers

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


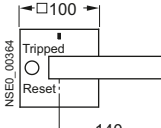
	3VL1	16 ... 160	8 × 8	4	1	
	3VL2	50 ... 160	8 × 8	4		
	3VL3	200... 250	8 × 8	4		

(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		

<sup>1)</sup> 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 2/64 to 2/67.



# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL160X (3VL1) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b>							
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole							
For rear connection, 4-pole							
<b>Front-accessible connections</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>Withdrawable version assembly kits</b>							
Upgrade of the plug-in base assembly kit to							
Withdrawable version 3-pole							
including side panels 3-pole with RCD							
and racking mechanism. 4-pole							
4-pole with RCD							
<b>Withdrawable versions</b>							
Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>Front-accessible connections</b>							
3-pole							
3-pole with RCD module							
4-pole							
4-pole with RCD module							
<b>Blade contacts</b>							
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units 3-pole							
1 set = 8 units 4-pole							
<b>Trip pins and springs</b>							
As replacement for plug-in/withdrawable circuit breaker							
<b>Auxiliary circuit plug connections for plug-in bases</b>							
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals							
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible							

<sup>1)</sup> 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

2

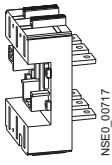
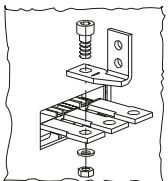
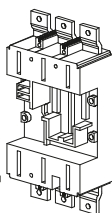
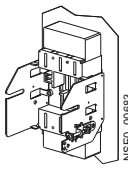

DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9200-4PA30</b>		1	1 unit	113	2.504		<b>3VL9300-4PA30</b>		1	1 unit	113	2.606
	<b>3VL9200-4PB30</b>		1	1 unit	113	2.991		<b>3VL9300-4PB30</b>		1	1 unit	113	3.120
	<b>3VL9200-4PA40</b>		1	1 unit	113	3.120		<b>3VL9300-4PA40</b>		1	1 unit	113	3.409
	<b>3VL9200-4PB40</b>		1	1 unit	113	3.614		<b>3VL9300-4PB40</b>		1	1 unit	113	3.762
	<b>3VL9300-4PE30</b>		1	1 unit	113	0.452		<b>3VL9300-4PE30</b>		1	1 unit	113	0.452
	<b>3VL9300-4PE40</b>		1	1 unit	113	0.548		<b>3VL9300-4PE40</b>		1	1 unit	113	0.548
	<b>3VL9200-4PC30</b>		1	1 unit	113	2.254		<b>3VL9300-4PC30</b>		1	1 unit	113	2.400
	<b>3VL9200-4PD30</b>		1	1 unit	113	2.368		<b>3VL9300-4PD30</b>		1	1 unit	113	2.668
	<b>3VL9200-4PC40</b>		1	1 unit	113	2.920		<b>3VL9300-4PC40</b>		1	1 unit	113	3.010
	<b>3VL9200-4PD40</b>		1	1 unit	113	3.595		<b>3VL9300-4PD40</b>		1	1 unit	113	3.500
	<b>3VL9300-4WF30</b>		1	1 unit	113	2.360		<b>3VL9300-4WF30</b>		1	1 unit	113	2.360
	<b>3VL9300-4WG30</b>		1	1 unit	113	3.176		<b>3VL9300-4WG30</b>		1	1 unit	113	3.176
	<b>3VL9300-4WF40</b>		1	1 unit	113	2.740		<b>3VL9300-4WF40</b>		1	1 unit	113	2.740
	<b>3VL9300-4WG40</b>		1	1 unit	113	3.106		<b>3VL9300-4WG40</b>		1	1 unit	113	3.106
	<b>3VL9200-4WA30</b>		1	1 unit	113	4.940		<b>3VL9300-4WA30</b>		1	1 unit	113	5.192
	<b>3VL9200-4WB30</b>		1	1 unit	113	6.301		<b>3VL9300-4WB30</b>		1	1 unit	113	6.475
	<b>3VL9200-4WA40</b>		1	1 unit	113	5.662		<b>3VL9300-4WA40</b>		1	1 unit	113	5.932
	<b>3VL9200-4WB40</b>		1	1 unit	113	6.919		<b>3VL9300-4WB40</b>		1	1 unit	113	6.935
	<b>3VL9200-4WC30</b>		1	1 unit	113	4.987		<b>3VL9300-4WC30</b>		1	1 unit	113	5.100
	<b>3VL9200-4WD30</b>		1	1 unit	113	6.045		<b>3VL9300-4WD30</b>		1	1 unit	113	5.906
	<b>3VL9200-4WC40</b>		1	1 unit	113	5.560		<b>3VL9300-4WC40</b>		1	1 unit	113	5.560
	<b>3VL9200-4WD40</b>		1	1 unit	113	6.732		<b>3VL9300-4WD40</b>		1	1 unit	113	6.895
	<b>3VL9200-4PS30</b>		1	1 unit	113	0.318		<b>3VL9300-4PS30</b>		1	1 unit	113	0.424
	<b>3VL9200-4PS40</b>		1	1 unit	113	0.389		<b>3VL9300-4PS40</b>		1	1 unit	113	0.535
	<b>3VL9300-4PF00</b>		1	1 unit	113	0.005		<b>3VL9300-4PF00</b>		1	1 unit	113	0.005
	1)							1)					
	<b>3VL9300-4PJ00</b>		1	1 unit	113	0.212		<b>3VL9300-4PJ00</b>		1	1 unit	113	0.212
	<b>3VL9000-4WL00</b>		1	1 unit	113	0.039		<b>3VL9000-4WL00</b>		1	1 unit	113	0.039

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL400 (3VL4) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
<b>Plug-in versions/withdrawable versions</b>								
<b>3- or 4-pole</b>								
<b>Plug-in base assembly kits</b> Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin								
<b>Rear terminals</b>								
 3VL9.00-4PA30	3-pole	<b>3VL9400-4PA30</b> ...1)		1	1 unit	113	6.520	
	3-pole with RCD module			1	1 unit	113	8.380	
	4-pole			1	1 unit	113	9.857	
<b>90° angle connecting adapters</b>								
For rear connection, 3-pole								
For rear connection, 4-pole								
<b>Front-accessible connections</b>								
 3VL9.00-4PE30	3-pole	<b>3VL9400-4PC30</b> ...1)		1	1 unit	113	6.190	
	3-pole with RCD module			1	1 unit	113	8.297	
	4-pole			1	1 unit	113	9.298	
	4-pole with RCD module							
<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to								
 3VL9.00-4WF30	Withdrawable version 3-pole	<b>3VL9400-4WF30</b> ...1)		1	1 unit	113	4.822	
	including side panels 3-pole with RCD			1	1 unit	113	4.880	
	and racking mechanism. 4-pole with RCD		<b>3VL9400-4WF40</b> <b>3VL9400-4WG40</b>		1	1 unit	113	6.070
<b>Withdrawable versions</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism								
<b>Rear terminals<sup>3)</sup></b>								
 3VL9.00-4WA30	3-pole	<b>3VL9400-4WA30</b> ...1)		1	1 unit	113	12.650	
	3-pole with RCD module			1	1 unit	113	14.582	
	4-pole		<b>3VL9400-4WA40</b> <b>3VL9400-4WB40</b>		1	1 unit	113	16.200
<b>Front-accessible connections</b>								
 3VL9.00-4WA30	3-pole	<b>3VL9400-4WC30</b> ...1)		1	1 unit	113	12.240	
	3-pole with RCD module			1	1 unit	113	14.240	
	4-pole		<b>3VL9400-4WC40</b> <b>3VL9400-4WD40</b>		1	1 unit	113	18.219
	4-pole with RCD module							
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin								
1 set = 6 units 3-pole								
<b>3VL9400-4PS30</b>								
1 set = 8 units 4-pole								
<b>3VL9400-4PS40</b>								
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker								
<b>3VL9400-4PF00</b>								
<b>Auxiliary circuit plug connections for plug-in bases</b> Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)								
8 terminals								
<b>3VL9400-4PJ00</b>								
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible								
<b>3VL9000-4WL00</b>								

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

2

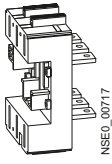
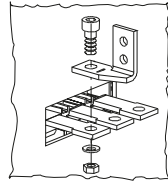
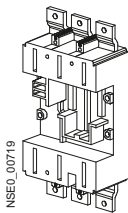
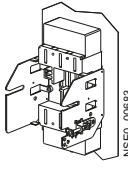
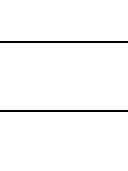
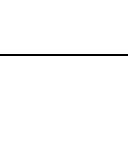
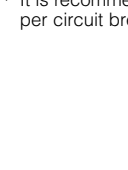
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	<b>3VL9500-4PA30</b>		1	1 unit	113	9.186		--					
	--							--					
	<b>3VL9500-4PA40</b>		1	1 unit	113	12.424		--					
	--							--					
	--							--					
	<b>3VL9500-4PC30</b>		1	1 unit	113	8.025		--					
	--							--					
	<b>3VL9500-4PC40</b>		1	1 unit	113	10.720		--					
	--							--					
	<b>3VL9500-4WF30</b>		1	1 unit	113	5.200		--					
	--							--					
	<b>3VL9500-4WF40</b>		1	1 unit	113	4.740		--					
	--							--					
	<b>3VL9500-4WA30</b>		1	1 unit	113	15.360		<b>3VL9600-4WA30</b>		1	1 unit	113	43.880
	--							--					
	<b>3VL9500-4WA40</b>		1	1 unit	113	18.760		<b>3VL9600-4WA40</b>		1	1 unit	113	43.800
	--							--					
	<b>3VL9500-4WC30</b>		1	1 unit	113	14.180		<b>3VL9600-4WC30</b>		1	1 unit	113	44.460
	--							--					
	<b>3VL9500-4WC40</b>		1	1 unit	113	16.945		<b>3VL9600-4WC40</b>		1	1 unit	113	43.213
	--							--					
	<b>3VL9500-4PS30</b>		1	1 unit	113	1.365		<b>3VL9600-4PS30</b>		1	1 unit	113	3.744
	<b>3VL9500-4PS40</b>		1	1 unit	113	2.101		<b>3VL9600-4PS40</b>		1	1 unit	113	4.965
	<b>3VL9500-4PF00</b>		1	1 unit	113	0.016		<b>3VL9600-4PF00</b>		1	1 unit	113	0.014
	2)							2)					
	<b>3VL9600-4PJ00</b>		1	1 unit	113	0.250		<b>3VL9600-4PJ00</b>		1	1 unit	113	0.250
	<b>3VL9000-4WL00</b>		1	1 unit	113	0.039		<b>3VL9000-4WL00</b>		1	1 unit	113	0.039

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL1250 (3VL7) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
 3VL9.00-4PA30	<b>3- or 4-pole</b>						
	<b>Plug-in base assembly kits</b> Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
 3VL9.00-4PE30	<b>Rear terminals</b>						
	3-pole -- 3-pole with RCD module -- 4-pole -- 4-pole with RCD module --						
 3VL9.00-4WA30	<b>90° angle connecting adapters</b> For rear connection, 3-pole -- For rear connection, 4-pole --						
	<b>Front-accessible connections</b>						
 3VL9.00-4WF30	3-pole -- 3-pole with RCD module -- 4-pole -- 4-pole with RCD module --						
	<b>Withdrawable version assembly kits</b> Upgrade of the plug-in base assembly kit to						
 3VL9.00-4WA30	Withdrawable version 3-pole -- including side panels 3-pole with RCD -- and racking mechanism. 4-pole -- 4-pole with RCD --						
	<b>Withdrawable versions</b> Same as plug-in base assembly kit, with additional side panels and racking mechanism						
 3VL9.00-4WA30	<b>Rear terminals<sup>1)</sup></b>						
	3-pole <b>3VL9800-4WA30</b> 1 1 unit 113 43.420 3-pole with RCD module -- 4-pole <b>3VL9800-4WA40</b> 1 1 unit 113 52.320 4-pole with RCD module --						
 3VL9.00-4WA30	<b>Front-accessible connections</b>						
	3-pole <b>3VL9800-4WC30</b> 1 1 unit 113 45.000 3-pole with RCD module -- 4-pole <b>3VL9800-4WC40</b> 1 1 unit 113 53.000 4-pole with RCD module --						
<b>Blade contacts</b> As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units 3-pole <b>3VL9800-4PS30</b> 1 1 unit 113 3.510 1 set = 8 units 4-pole <b>3VL9800-4PS40</b> 1 1 unit 113 4.595							
<b>Trip pins and springs</b> As replacement for plug-in/withdrawable circuit breaker		<b>3VL9800-4PF00</b>		1	1 unit	113	0.017
<b>Auxiliary circuit plug connections for plug-in bases</b> 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		<b>3VL9800-4PJ00</b>		1	1 unit	113	0.238
<b>Position signaling switches</b> (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible		<b>3VL9000-4WL00</b>		1	1 unit	113	0.039

<sup>1)</sup> With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

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





# Molded Case Circuit Breakers

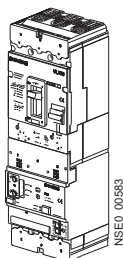
## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

### Accessories and spare parts

Circuit breakers for system protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I_{\Delta}$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	s	V AC							kg

#### RCD modules



#### 3-pole

VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480		<b>3VL9112-5GA30</b>		1	1 unit	113	1.500
VL160 (3VL2)	160	0.30	0.10	127 ... 480		<b>3VL9216-5GC30</b>		1	1 unit	113	1.438
		0.50	0.25	230 ... 690		<b>3VL9216-5GD30</b>		1	1 unit	113	1.427
VL250 (3VL3)	250	1.00	0.50	127 ... 480		<b>3VL9325-5GE30</b>		1	1 unit	113	1.478
		3.00	1.00	230 ... 690		<b>3VL9325-5GF30</b>		1	1 unit	113	1.487
VL400 (3VL4)	400			127 ... 480		--					
				230 ... 690		--					

Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker

#### 4-pole

VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)2)</sup>	160	0.10	0.06	127 ... 480		<b>3VL9112-5GA40</b>		1	1 unit	113	1.849
VL160 (3VL2)	160	0.30	0.10	127 ... 480		<b>3VL9216-5GC40</b>		1	1 unit	113	1.743
		0.50	0.25	230 ... 690		<b>3VL9216-5GD40</b>		1	1 unit	113	1.700
VL250 (3VL3)	250	1.00	0.50	127 ... 480		<b>3VL9325-5GE40</b>		1	1 unit	113	1.806
		3.00	1.00	230 ... 690		<b>3VL9325-5GF40</b>		1	1 unit	113	1.810
VL400 (3VL4)	400			127 ... 480		<b>3VL9440-5GG40</b>		1	1 unit	113	3.327
				230 ... 690		<b>3VL9440-5GH40</b>		1	1 unit	113	3.325

Circuit breakers for system protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I_{\Delta}$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	3-pole circuit breakers		4-pole circuit breakers	
					Article No. with "-Z" <b>3VL...D...-Z</b> and additional order code	Additional price	Article No. with "-Z" <b>3VL...E...-Z</b> and additional order code	Additional price
	A	A	s	V AC	<input type="checkbox"/> <input type="checkbox"/> Code for further versions	-Z	<input type="checkbox"/> <input type="checkbox"/> Code for further versions	-Z

#### Circuit breakers with RCD module

#### 3 and 4-pole

VL160X (3VL1)		0.03	Instantaneous							
(Bottom mounting)	160	0.10	0.06	127 ... 480	<input checked="" type="checkbox"/>	<b>A 0 1</b> <sup>1)2)</sup>	<input checked="" type="checkbox"/>	<b>A 0 1</b> <sup>1)2)</sup>	<input checked="" type="checkbox"/>	
		0.30	0.10							
		0.50	0.25							
VL160 (3VL2)	160	1.00	0.50	127 ... 480	<input checked="" type="checkbox"/>	<b>A 0 1</b>	<input checked="" type="checkbox"/>	<b>A 0 1</b>	<input checked="" type="checkbox"/>	
		3.00	1.00	230 ... 690	<input checked="" type="checkbox"/>	<b>A 0 2</b>	<input checked="" type="checkbox"/>	<b>A 0 2</b>	<input checked="" type="checkbox"/>	
VL250 (3VL3)	250			127 ... 480	<input checked="" type="checkbox"/>	<b>A 0 1</b>	<input checked="" type="checkbox"/>	<b>A 0 1</b>	<input checked="" type="checkbox"/>	
				230 ... 690	<input checked="" type="checkbox"/>	<b>A 0 2</b>	<input checked="" type="checkbox"/>	<b>A 0 2</b>	<input checked="" type="checkbox"/>	
VL400 (3VL4)	400			127 ... 480		--		<b>A 0 1</b>	<input checked="" type="checkbox"/>	
				230 ... 690		--		<b>A 0 2</b>	<input checked="" type="checkbox"/>	

✓ Additional price

<sup>1)</sup> 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](http://www.siemens.com/lowvoltage/product-support).










<sup>2)</sup> 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 wire interlocking.

# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

Version	DT	For VL160X (3VL1) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars<sup>1)</sup></b> Phase barriers included.							
Standard							
 NSE0_00702 3VL9.00-4EC40	1 set = 3 units	3-pole	<b>3VL9216-4EC30</b>	1	1 unit	113	0.212
	1 set = 4 units	4-pole	<b>3VL9216-4EC40</b>	1	1 unit	113	0.287
For increased pole spacing							
 NSE0_00722 3VL9.00-4ED40	1 set = 3 units	3-pole	<b>3VL9216-4ED30</b>	1	1 unit	113	0.224
	1 set = 4 units	4-pole	<b>3VL9216-4ED40</b>	1	1 unit	113	0.348
<b>Rear terminals</b>							
Short connection (1 unit)							
			<b>3VL9100-4RA00</b>	1	1 unit	113	0.156
Long connection (1 unit)							
			<b>3VL9100-4RB00</b>	1	1 unit	113	0.260
Terminal kit (2 short + 1 long)							
 NSE0_00723 3VL9.00-4RA00, 3VL9.00-4RB00		3-pole	<b>3VL9100-4RC30</b>	1	1 unit	113	0.556
Terminal kit (2 short + 2 long)							
		4-pole	<b>3VL9100-4RF40</b>	1	1 unit	113	0.805
Short flat connection (1 unit)							
			<b>3VL9100-4RK00</b>	1	1 unit	113	0.104
Long flat connection (1 unit)							
			<b>3VL9100-4RL00</b>	1	1 unit	113	0.222
Flat connector kit (2 short + 1 long)							
 NSE0_00724 3VL9.00-4RK00, 3VL9.00-4RL00		3-pole	<b>3VL9100-4RM30</b>	1	1 unit	113	0.408
Flat connector kit (2 short + 2 long)							
		4-pole	<b>3VL9100-4RN40</b>	1	1 unit	113	0.652
<b>Box terminals</b>							
For connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00700 3VL9.00-4TC.0	1 set = 3 units		<b>3VL9100-4TC30</b>	1	1 unit	113	0.103
	1 set = 4 units		<b>3VL9100-4TC40</b>	1	1 unit	113	0.132
<b>Circular conductor terminals</b>							
Only for cables (Al or Cu)							
Aluminum terminal (tinned)							
 NSE0_00700 3VL9.00-4TD.0	1 set = 3 units		<b>3VL9100-4TD30</b>	1	1 unit	113	0.104
	1 set = 4 units		<b>3VL9100-4TD40</b>	1	1 unit	113	0.139
<b>Circular conductor terminal with terminal covers for cable (Al or Cu)</b>							
	1 set = 3 units		<b>3VL9115-4TD30</b>	1	1 unit	113	0.337
	1 set = 4 units		<b>3VL9115-4TD40</b>	1	1 unit	113	0.429
<b>Auxiliary conductor terminals</b>							
For box terminals/circular conductor terminals							
	1 set = 10 units		<b>3VL9200-3TN00</b>	1	1 unit	113	0.125
<b>Terminals with screw connection - metric thread</b>							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00701 3VL9.00-4TA.0	1 set = 3 units		<b>3VL9116-4TA30</b>	1	1 unit	113	0.067
	1 set = 4 units		<b>3VL9116-4TA40</b>	1	1 unit	113	0.084
<b>Connection covers (terminal covers) for circuit breakers</b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
 NSE0_00730 3VL9.00-3CB.0	Extended	3-pole	<b>3VL9300-8CA30</b>	1	1 unit	113	0.292
	Standard	3-pole	<b>3VL9300-8CB30</b>	1	1 unit	113	0.063
	Extended	4-pole	<b>3VL9300-8CA40</b>	1	1 unit	113	0.364
	Standard	4-pole	<b>3VL9300-8CB40</b>	1	1 unit	113	0.091
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>							
 NSE0_00731 3VL9.00-8CE00	1 set = 2 units		<b>3VL9300-8CE00</b>	1	1 unit	113	0.032

<sup>1)</sup> 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](http://www.siemens.com/lowvoltage/product-support).



# Molded Case Circuit Breakers

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

### Accessories and spare parts

2



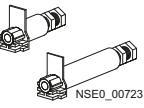



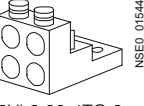




DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9300-4EC30</b>		1	1 unit	113	0.269		<b>3VL9400-4EC30</b>		1	1 unit	113	0.918
	<b>3VL9300-4EC40</b>		1	1 unit	113	0.353		<b>3VL9400-4EC40</b>		1	1 unit	113	1.145
	<b>3VL9300-4ED30</b>		1	1 unit	113	0.256		<b>3VL9400-4ED30</b>		1	1 unit	113	0.896
	<b>3VL9300-4ED40</b>		1	1 unit	113	0.425		<b>3VL9400-4ED40</b>		1	1 unit	113	1.476
	<b>3VL9300-4RA00</b>		1	1 unit	113	0.161		<b>3VL9400-4RA00</b>		1	1 unit	113	0.268
	<b>3VL9300-4RB00</b>		1	1 unit	113	0.265		<b>3VL9400-4RB00</b>		1	1 unit	113	0.433
	<b>3VL9300-4RC30</b>		1	1 unit	113	0.562		<b>3VL9400-4RC30</b>		1	1 unit	113	0.930
	<b>3VL9300-4RF40</b>		1	1 unit	113	0.850		<b>3VL9400-4RF40</b>		1	1 unit	113	1.337
	<b>3VL9300-4RK00</b>		1	1 unit	113	0.126		<b>3VL9400-4RK00</b>		1	1 unit	113	0.380
	<b>3VL9300-4RL00</b>		1	1 unit	113	0.228		<b>3VL9400-4RL00</b>		1	1 unit	113	0.585
	<b>3VL9300-4RM30</b>		1	1 unit	113	0.447		<b>3VL9400-4RM30</b>		1	1 unit	113	1.305
	<b>3VL9300-4RN40</b>		1	1 unit	113	0.660		<b>3VL9400-4RN40</b>		1	1 unit	113	1.783
	<b>3VL9300-4TC30</b>		1	1 unit	113	0.205		<b>3VL9400-4TC30</b>		1	1 unit	113	0.488
	<b>3VL9300-4TC40</b>		1	1 unit	113	0.278		<b>3VL9400-4TC40</b>		1	1 unit	113	0.617
	<b>3VL9300-4TD30</b>		1	1 unit	113	0.174		<b>3VL9400-4TD30</b>		1	1 unit	113	0.293
	<b>3VL9300-4TD40</b>		1	1 unit	113	0.233		<b>3VL9400-4TD40</b>		1	1 unit	113	0.371
	<b>3VL9324-4TD30</b>		1	1 unit	113	0.487		--					
	<b>3VL9324-4TD40</b>		1	1 unit	113	0.676		--					
	--							<b>3VL9400-4TF30</b>		1	1 unit	113	0.452
	--							<b>3VL9400-4TF40</b>		1	1 unit	113	0.575
	--							<b>3VL9460-4TF30</b>		1	1 unit	113	0.892
	--							<b>3VL9460-4TF40</b>		1	1 unit	113	1.141
	<b>3VL9300-3TN00</b>		1	1 unit	113	0.133		<b>3VL9400-3TN00</b>		1	1 unit	113	0.140
	<b>3VL9300-4TA30</b>		1	1 unit	113	0.115		<b>3VL9400-4TA30</b>		1	1 unit	113	0.125
	<b>3VL9300-4TA40</b>		1	1 unit	113	0.144		<b>3VL9400-4TA40</b>		1	1 unit	113	0.161
	<b>3VL9300-8CA30</b>		1	1 unit	113	0.292		<b>3VL9400-8CA30</b>		1	1 unit	113	0.625
	<b>3VL9300-8CB30</b>		1	1 unit	113	0.063		<b>3VL9400-8CB30</b>		1	1 unit	113	0.122
	<b>3VL9300-8CA40</b>		1	1 unit	113	0.364		<b>3VL9400-8CA40</b>		1	1 unit	113	0.705
	<b>3VL9300-8CB40</b>		1	1 unit	113	0.091		<b>3VL9400-8CB40</b>		1	1 unit	113	0.177
	<b>3VL9300-8CE00</b>		1	1 unit	113	0.032		<b>3VL9600-8CE00</b>		1	1 unit	113	0.054

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL630 (3VL5) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars</b>							
Phase barriers included.							
Standard							
 NSE0_00702 3VL9.00-4EC40	1 set = 3 units	3-pole	<b>3VL9500-4EC30</b>	1	1 unit	113	1.160
	1 set = 4 units	4-pole	<b>3VL9500-4EC40</b>	1	1 unit	113	1.522
For increased pole spacing							
 NSE0_00722 3VL9.00-4ED40	1 set = 3 units	3-pole	<b>3VL9500-4ED30</b>	1	1 unit	113	1.172
	1 set = 4 units	4-pole	<b>3VL9500-4ED40</b>	1	1 unit	113	1.545
<b>Rear terminals</b>							
Short connection (1 unit)							
Long connection (1 unit)							
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)							
Flat connector kit (2 short + 1 long) 3-pole							
Flat connector kit (2 short + 2 long) 4-pole							
Flat connecting bar (1 unit)							
Flat connecting bar							
Set = 3 units, 3-pole							
Flat connecting bar							
Set = 4 units, 4-pole							
 NSE0_00723 3VL9.00-4RA00, 3VL9.00-4RB00							
 NSE0_00724 3VL9.00-4RK00, 3VL9.00-4RL00			<b>3VL9500-4RG00</b>	1	1 unit	113	0.459
			<b>3VL9500-4RH30</b>	1	1 unit	113	1.174
			<b>3VL9500-4RH40</b>	1	1 unit	113	1.519
 NSE0_00725 3VL9.00-4RG00							
<b>Multiple feed-in terminals</b>							
Only for cables (Al or Cu)							
<u>Aluminum terminal (tinned)</u>							
 NSE0_01542 3VL9.00-4TF.0	1 set = 3 units		<b>3VL9500-4TG30</b>	1	1 unit	113	0.527
	1 set = 4 units		<b>3VL9500-4TG40</b>	1	1 unit	113	0.730
 NSE0_01544 3VL9.00-4TG.0							
<b>Auxiliary conductor terminals</b>							
For multiple feed-in terminals							
1 set = 10 units							
			<b>3VL9400-3TN00</b>	1	1 unit	113	0.140
<b>Terminal plates<sup>1)</sup></b>							
Connection for flexible flat copper busbar with auxiliary conductor connection 0.5 – 4 mm <sup>2</sup> (extended terminal covers or phase barriers required)							
 NSE0_01530 3VL9.00-4TT.0	1 set = 3 units		<b>3VL9500-4TT30</b>	1	1 unit	113	1.432
	1 set = 4 units		<b>3VL9500-4TT40</b>	1	1 unit	113	1.893
<b>Terminals with screw connection - metric thread</b>							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00701 3VL9.00-4TA.0	1 set = 3 units		<b>3VL9500-4TA30</b>	1	1 unit	113	0.128
	1 set = 4 units		<b>3VL9500-4TA40</b>	1	1 unit	113	0.163
<b>Connection covers (terminal covers) for circuit breakers</b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
 NSE0_00730 3VL9.00-3CB.0	Extended	3-pole	<b>3VL9600-8CA30</b>	1	1 unit	113	0.930
	Standard	3-pole	<b>3VL9600-8CB30</b>	1	1 unit	113	0.219
	Extended	4-pole	<b>3VL9600-8CA40</b>	1	1 unit	113	1.062
	Standard	4-pole	<b>3VL9600-8CB40</b>	1	1 unit	113	0.292
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions<sup>2)</sup></b>							
 NSE0_00731 3VL9.00-8CE00	1 set = 2 units		<b>3VL9600-8CE00</b>	1	1 unit	113	0.054

<sup>1)</sup> 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

2

DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9600-4EC30</b>		1	1 unit	113	1.725		<b>3VL9800-4EC30</b>		1	1 unit	113	3.457
	<b>3VL9600-4EC40</b>		1	1 unit	113	2.301		<b>3VL9800-4EC40</b>		1	1 unit	113	4.634
	<b>3VL9600-4ED30</b>		1	1 unit	113	1.733		--					
	<b>3VL9600-4ED40</b>		1	1 unit	113	2.287		--					
	--							--					
	--							--					
	--							--					
	--							--					
	--							--					
	--							--					
	<b>3VL9600-4RG00</b>		1	1 unit	113	1.629		<b>3VL9700-4RG00</b>		1	1 unit	113	1.638
	<b>3VL9600-4RH30</b>		1	1 unit	113	4.770		<b>3VL9700-4RH30</b>		1	1 unit	113	4.960
	<b>3VL9600-4RH40</b>		1	1 unit	113	6.510		<b>3VL9700-4RH40</b>		1	1 unit	113	6.523
	<b>3VL9600-4TG30</b>		1	1 unit	113	1.032		<b>3VL9700-4TG30</b>		1	1 unit	113	2.207
	<b>3VL9600-4TG40</b>		1	1 unit	113	1.286		<b>3VL9700-4TG40</b>		1	1 unit	113	2.950
	<b>3VL9400-3TN00</b>		1	1 unit	113	0.140		<b>3VL9400-3TN00</b>		1	1 unit	113	0.140
	--							--					
	--							--					
	<b>3VL9600-4TA30</b>		1	1 unit	113	0.236		<b>3VL9800-4TA30</b>		1	1 unit	113	0.275
	<b>3VL9600-4TA40</b>		1	1 unit	113	0.330		<b>3VL9800-4TA40</b>		1	1 unit	113	0.340
	<b>3VL9600-8CA30</b>		1	1 unit	113	0.930		<b>3VL9800-8CA30</b>		1	1 unit	113	1.240
	<b>3VL9600-8CB30</b>		1	1 unit	113	0.219		<b>3VL9800-8CB30</b>		1	1 unit	113	0.363
	<b>3VL9600-8CA40</b>		1	1 unit	113	1.062		<b>3VL9800-8CA40</b>		1	1 unit	113	1.500
	<b>3VL9600-8CB40</b>		1	1 unit	113	0.292		<b>3VL9800-8CB40</b>		1	1 unit	113	0.528
	<b>3VL9600-8CE00</b>		1	1 unit	113	0.054		<b>3VL9800-8CE00</b>		1	1 unit	113	0.175











<sup>2)</sup> 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

2

### Accessories and spare parts

Version	DT	For VL1600 (3VL8) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars</b>							
Phase barriers included.							
Standard <sup>1)</sup>							
 NSE0_00702 3VL9.00-4EC40	1 set = 3 units	3-pole		<b>3VL9800-4EC30</b>	1	1 unit	113 3.457
	1 set = 4 units	4-pole		<b>3VL9800-4EC40</b>	1	1 unit	113 4.634
For increased pole spacing							
 NSE0_00722 3VL9.00-4ED40	1 set = 3 units	3-pole		--			
	1 set = 4 units	4-pole		--			
<b>Rear terminals</b>							
Short connection (1 unit)							
Long connection (1 unit)							
 NSE0_00723 3VL9.00-4RA00, 3VL9.00-4RB00	Terminal kit (2 short + 1 long)	3-pole		--			
	Terminal kit (2 short + 2 long)	4-pole		--			
 NSE0_00724 3VL9.00-4RK00, 3VL9.00-4RL00	Short flat connection (1 unit)			--			
	Long flat connection (1 unit)			--			
Flat connector kit (2 short + 1 long)							
3-pole							
Flat connector kit (2 short + 2 long)							
4-pole							
 NSE0_00725 3VL9.00-4RG00	Flat connecting bar (1 unit)			<b>3VL9800-4RG00</b>	1	1 unit	113 1.609
	Flat connecting bar			<b>3VL9800-4RH30</b>	1	1 unit	113 4.965
	Set = 3 units, 3-pole			<b>3VL9800-4RH40</b>	1	1 unit	113 6.105
	Flat connecting bar						
	Set = 4 units, 4-pole						
<b>Box terminals</b>							
For connection for flexible flat copper busbar or cable, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00700 3VL9.00-4TC.0	1 set = 3 units			--			
	1 set = 4 units			--			
<b>Multiple feed-in terminals</b>							
Only for cables (Al or Cu)							
Aluminum terminal (tinned)							
 NSE0_01544 3VL9.00-4TG.0	1 set = 3 units			--			
	1 set = 4 units			--			
<b>Auxiliary conductor terminals</b>							
For box terminals/aluminum terminals							
<b>Terminals with screw connection - metric thread</b>							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> .							
 NSE0_00701 3VL9.00-4TA.0	1 set = 3 units			<b>3VL9800-4TA30</b>	1	1 unit	113 0.275
	1 set = 4 units			<b>3VL9800-4TA40</b>	1	1 unit	113 0.340
<b>Connection covers (terminal covers) for circuit breakers</b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
 NSE0_00730 3VL9.00-3CB.0	Extended	3-pole		<b>3VL9800-8CA30</b>	1	1 unit	113 1.240
	Standard	3-pole		<b>3VL9800-8CB30</b>	1	1 unit	113 0.363
	Extended	4-pole		<b>3VL9800-8CA40</b>	1	1 unit	113 1.500
	Standard	4-pole		<b>3VL9800-8CB40</b>	1	1 unit	113 0.528
<b>Phase barriers for fixed-mounted circuit breakers</b>							
 NSE0_00731 3VL9.00-8CE00	1 set = 2 units			<b>3VL9800-8CE00</b>	1	1 unit	113 0.175

<sup>1)</sup> In scope of supply of circuit breaker.

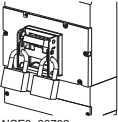
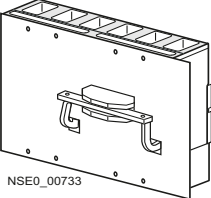
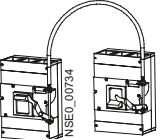
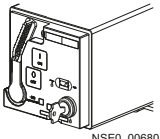


# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

Version	DT	For VL160X (3VL1) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
 <p>NSE0_00732 3VL9.00-3HL00</p>		<p><b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)</p>	3VL9300-3HL00	1	1 unit	113	0.071
 <p>NSE0_00733 3VL9.00-8L.00</p>		<p><b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers</p>	3VL9300-8LC00 3VL9300-8LD00	1 1	1 unit 1 unit	113 113	0.312 0.383
 <p>NSE0_00734 3VL9.00-8LA00</p>		<p><b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker</p>	3VL9300-8LA00	1	1 unit	113	0.205
		<p><b>Bowden wires</b> for Bowden wire interlocking<sup>1)</sup></p>					
		Wire length 0.5 m	3VL9000-8LH10	1	1 unit	113	0.303
		Wire length 1.0 m	3VL9000-8LH20	1	1 unit	113	0.444
		Wire length 1.5 m	3VL9000-8LH30	1	1 unit	113	0.646
 <p>NSE0_00680 3VL9...-8HA00</p>		<p><b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis</p> <p><u>For motorized operating mechanism with stored energy mechanism</u> Lock types Ronis Filli Giussani</p>	3VL9715-8HA00 -- 3VL9321-8HA00	1 -- 1	1 unit -- 1 unit	113 -- 113	0.266 -- 0.036
		<p><b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws</p>	3VL9300-8SA40	1	1 unit	113	0.052
		<p><b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Unit Thermal-magnetic</p>	-- 3VL9300-8BM00	1 1	1 unit 1 unit	113 113	0.017 0.017

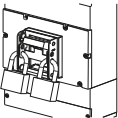
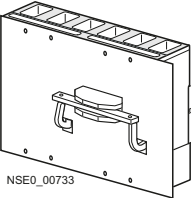
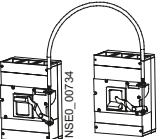
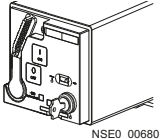

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL160 (3VL2) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
<b>Locking devices for toggle levers</b>							
 <p>NSE0_00732</p>		<p>For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)</p>		<p><b>3VL9300-3HL00</b></p>		<p>1 1 unit 113 0.071</p>	
<b>Rear interlocking modules</b>							
 <p>NSE0_00733</p>		<p>For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers</p>		<p><b>3VL9300-8LC00</b> <b>3VL9300-8LD00</b></p>		<p>1 1 unit 113 0.312 1 1 unit 113 0.383</p>	
<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b>							
 <p>NSE0_00734</p>		<p>For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker</p>		<p>Combinations with next size up/down possible (see Article No.)</p> <p><b>3VL9300-8LA00</b></p>		<p>1 1 unit 113 0.205</p>	
<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b>							
		Wire length 0.5 m		<b>3VL9000-8LH10</b>		1 1 unit 113 0.303	
		Wire length 1.0 m		<b>3VL9000-8LH20</b>		1 1 unit 113 0.444	
		Wire length 1.5 m		<b>3VL9000-8LH30</b>		1 1 unit 113 0.646	
<b>Safety lock assembly kits</b>							
 <p>NSE0_00680</p>		<p>Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis</p>		<p><b>3VL9715-8HA00</b></p>		<p>1 1 unit 113 0.266</p>	
		<p><u>For motorized operating mechanism with stored energy mechanism</u> Lock types Ronis Filli Giussani</p>		<p>-- <b>3VL9321-8HA00</b></p>		<p>1 1 unit 113 0.036</p>	
<b>Sets of fixing screws (metric thread)</b>							
		<p>Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws</p>		<p><b>3VL9300-8SA40</b></p>		<p>1 1 unit 113 0.052</p>	
<b>Transparent covers for releases, sealable</b>							
		<p>To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Unit</p>		<p><b>3VL9700-8BL00</b></p>		<p>1 1 unit 113 0.009</p>	
		<p>Thermal-magnetic</p>		<p><b>3VL9300-8BM00</b></p>		<p>1 1 unit 113 0.017</p>	
<b>Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs.</b>							
 <p>NSE0_01631a</p>		<p>(two 9 V blocks are required in addition)</p>		<p><b>3VL9000-8AP01</b></p>		<p>1 1 unit 113 0.212</p>	

<sup>1)</sup> Two interlocking modules and one Bowden wire 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

2

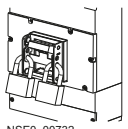
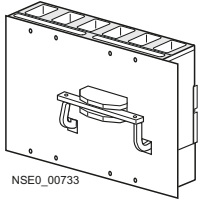
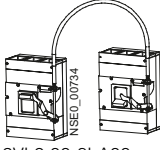
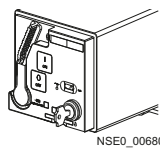
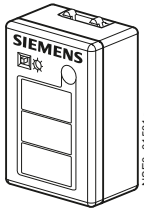
DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9300-3HL00</b>		1	1 unit	113	0.071		<b>3VL9400-3HL00</b>		1	1 unit	113	0.138
	<b>3VL9300-8LC00</b>		1	1 unit	113	0.312		<b>3VL9400-8LC00</b>		1	1 unit	113	1.170
	<b>3VL9300-8LD00</b>		1	1 unit	113	0.383		<b>3VL9400-8LD00</b>		1	1 unit	113	1.280
	<b>3VL9300-8LA00</b>		1	1 unit	113	0.205		<b>3VL9400-8LA00</b>		1	1 unit	113	0.239
	<b>3VL9000-8LH10</b>		1	1 unit	113	0.303		--					
	<b>3VL9000-8LH20</b>		1	1 unit	113	0.444		<b>3VL9000-8LH20</b>		1	1 unit	113	0.444
	<b>3VL9000-8LH30</b>		1	1 unit	113	0.646		<b>3VL9000-8LH30</b>		1	1 unit	113	0.646
	<b>3VL9715-8HA00</b>		1	1 unit	113	0.266		<b>3VL9715-8HA00</b>		1	1 unit	113	0.266
	--							<b>3VL9715-8HA00</b>		1	1 unit	113	0.266
	<b>3VL9321-8HA00</b>		1	1 unit	113	0.036		--					
	<b>3VL9300-8SA40</b>		1	1 unit	113	0.052		<b>3VL9500-8SA40</b>		1	1 unit	113	0.109
	<b>3VL9700-8BL00</b>		1	1 unit	113	0.009		<b>3VL9700-8BL00</b>		1	1 unit	113	0.009
	<b>3VL9300-8BM00</b>		1	1 unit	113	0.017		<b>3VL9400-8BM00</b>		1	1 unit	113	0.028
	<b>3VL9000-8AP01</b>		1	1 unit	113	0.212		<b>3VL9000-8AP01</b>		1	1 unit	113	0.212

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL630 (3VL5) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
<b>Locking devices for toggle levers</b>							
 <p>NSE0_00732 3VL9.00-3HL00</p>		<p>For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)</p>		<p><b>3VL9600-3HL00</b></p>		<p>1 1 unit 113 0.163</p>	
<b>Rear interlocking modules</b>							
 <p>NSE0_00733 3VL9.00-8L.00</p>		<p>For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply)</p> <p>Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers</p>		<p><b>3VL9600-8LC00</b> <b>3VL9600-8LD00</b></p>		<p>1 1 unit 113 4.356 1 1 unit 113 5.413</p>	
<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b>							
 <p>NSE0_00734 3VL9.00-8LA00</p>		<p>For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker</p>		<p>Combinations with next size up/down possible (see Article No.)</p> <p><b>3VL9600-8LA00</b></p>		<p>1 1 unit 113 0.274</p>	
<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b>							
		Wire length 0.5 m		--			
		Wire length 1.0 m		<b>3VL9000-8LH20</b>		1 1 unit 113 0.444	
		Wire length 1.5 m		<b>3VL9000-8LH30</b>		1 1 unit 113 0.646	
<b>Safety lock assembly kits</b>							
 <p>NSE0_00680 3VL9...-8HA00</p>		<p>Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u></p> <p>Lock types Ronis</p> <p><u>For motorized operating mechanism with stored energy mechanism</u></p> <p>Lock types Ronis Filli Giussani</p>		<p><b>3VL9715-8HA00</b> <b>3VL9715-8HA00</b> --</p>		<p>1 1 unit 113 0.266 1 1 unit 113 0.266</p>	
<b>Sets of fixing screws (metric thread)</b>							
		Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface		<b>3VL9500-8SA40</b>		1 1 unit 113 0.109	
<b>Transparent covers for releases, sealable</b>							
		To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units		<b>3VL9700-8BL00</b> <b>3VL9600-8BM00</b>		1 1 unit 113 0.009 1 1 unit 113 0.046	
 <p>NSE0_01831a 3VL9000-8AP01</p>		<p><b>Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)</p>		<b>3VL9000-8AP01</b>		1 1 unit 113 0.212	

<sup>1)</sup> Two interlocking modules and one Bowden wire 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

2

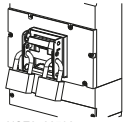
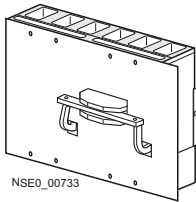
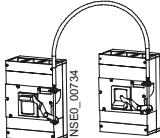
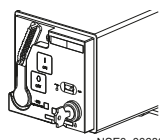
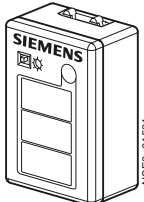
DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9600-3HL00</b>		1	1 unit	113	0.163		<b>3VL9800-3HL00</b>		1	1 unit	113	0.260
	<b>3VL9600-8LC00</b>		1	1 unit	113	4.356		<b>3VL9800-8LC00</b>		1	1 unit	113	2.738
	<b>3VL9600-8LD00</b>		1	1 unit	113	5.413		<b>3VL9800-8LD00</b>		1	1 unit	113	3.402
	<b>3VL9600-8LA00</b>		1	1 unit	113	0.274		<b>3VL9800-8LA00</b>		1	1 unit	113	0.305
	--							--					
	<b>3VL9000-8LH20</b>		1	1 unit	113	0.444		--					
	<b>3VL9000-8LH30</b>		1	1 unit	113	0.646		<b>3VL9000-8LH30</b>		1	1 unit	113	0.646
	<b>3VL9715-8HA00</b>		1	1 unit	113	0.266		<b>3VL9715-8HA00</b>		1	1 unit	113	0.266
	<b>3VL9715-8HA00</b>		1	1 unit	113	0.266		<b>3VL9715-8HA00</b>		1	1 unit	113	0.266
	--							--					
	<b>3VL9600-8SA40</b>		1	1 unit	113	0.099		<b>3VL9800-8SA40</b>		1	1 unit	113	0.116
	<b>3VL9700-8BL00</b>		1	1 unit	113	0.009		<b>3VL9700-8BL00</b>		1	1 unit	113	0.009
	--							--					
	<b>3VL9000-8AP01</b>		1	1 unit	113	0.212		<b>3VL9000-8AP01</b>		1	1 unit	113	0.212

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL1600 (3VL8) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
 NSE0_00732 3VL9.00-3HL00		<b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)					
		<b>3VL9800-3HL00</b>		1	1 unit	113	0.260
 NSE0_00733 3VL9.00-8L.00		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. Circuit breakers, fixed-mounted <sup>1)</sup> Plug-in/withdrawable circuit breakers					
		<b>3VL9800-8LC00</b>		1	1 unit	113	2.738
		<b>3VL9800-8LD00</b>		1	1 unit	113	3.402
 NSE0_00734 3VL9.00-8LA00		<b>Interlocking modules for Bowden wire interlocking<sup>2)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker					
		<b>3VL9800-8LA00</b>		1	1 unit	113	0.305
		<b>Bowden wires for Bowden wire interlocking<sup>2)</sup></b> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m					
				1	1 unit	113	0.646
 NSE0_00680 3VL9...-8HA00		<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis For motorized operating mechanisms Lock types Ronis Filli Giussani					
				1	1 unit	113	0.266
				1	1 unit	113	0.266
				1	1 unit	113	0.116
		<b>Transparent covers for releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)					
				1	1 unit	113	0.009
 NSE0_018518 3VL9000-8AP01		<b>Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)					
				1	1 unit	113	0.212

<sup>1)</sup> Mounting plate not included in scope of supply.

<sup>2)</sup> Two interlocking modules and one Bowden wire 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

2

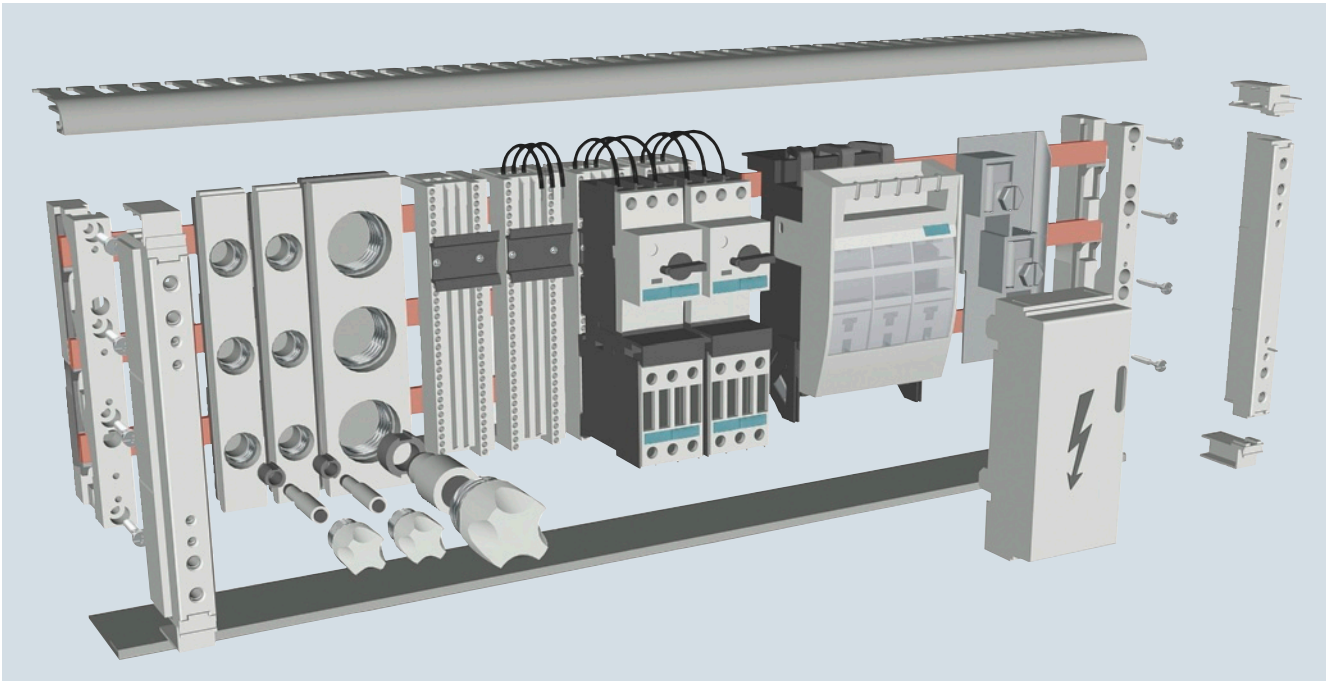
### Transfer control devices



3KC ATC5300 transfer control devices

See chapter "Monitoring Devices".

### 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.

See also chapter "Busbar Systems".

# Molded Case Circuit Breakers

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

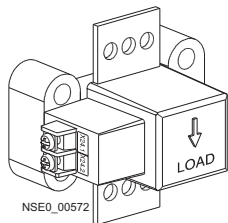
2

### Accessories and spare parts

Type	Rated current $I_n$	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A							kg

#### Further accessories

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



VL160/3VL2	63, 80		<b>3VL9280-8TC00</b>		1	1 unit	113	0.453
	100		<b>3VL9210-8TC00</b>		1	1 unit	113	0.460
	160		<b>3VL9216-8TC00</b>		1	1 unit	113	0.475
VL250/3VL3	200		<b>3VL9320-8TC00</b>		1	1 unit	113	0.452
	250		<b>3VL9325-8TC00</b>		1	1 unit	113	0.455
VL400/3VL4	315		<b>3VL9440-8TC00</b>		1	1 unit	113	0.648
	400		<b>3VL9440-8TC00</b>		1	1 unit	113	0.648
VL630/3VL5	630		<b>3VL9563-8TC00</b>		1	1 unit	113	0.771
VL800/3VL6	800		<b>3VL9680-8TC00</b>		1	1 unit	113	0.800
VL1250/3VL7	1000		<b>3VL9712-8TC00</b>		1	1 unit	113	2.042
	1250		<b>3VL9712-8TC00</b>		1	1 unit	113	2.042
VL1600/3VL8	1600		<b>3VL9816-8TC00</b>		1	1 unit	113	2.061

<sup>1)</sup> Please note the rated current of the circuit breaker.



# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
---------	----	-------------	--------------	-------------------	-------------	----	-----------------------

kg

#### 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, connection cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AU00

1 1 unit 113 0.287

##### 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, connection cable to ETU included in delivery of the ETU, length 1.5 m.

3VL9000-8AV00

1 1 unit 113 0.295

##### Connection cable ETU – COM20/COM21

For VL160 ... VL250, length 3 m  
For VL630 ... VL1600, length 3 m  
For VL400, length 3 m3VL9000-8AQ81  
3VL9000-8AQ71  
3VL9000-8AQ611 1 unit 113 0.173  
1 1 unit 113 0.135  
1 1 unit 113 0.149

##### Addressing plugs

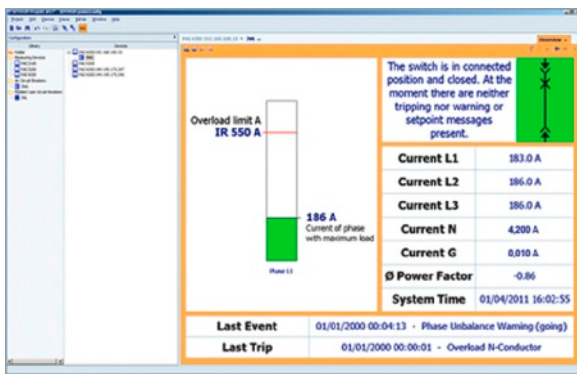
##### For assigning the PROFIBUS module addresses without using a PC/PG

On COM20/COM21 through the system interface

▶ 3UF7910-0AA00-0

1 1 unit 42J 0.015

##### powerconfig parameterization software



Parameterization, operation, monitoring and diagnostics of 3VL molded case circuit breakers using powerconfig software see chapter 13 Software, "Configuring, Visualizing and Controlling with SENTRON". powerconfig is available free of charge at <http://support.automation.siemens.com/WWW/view/en/50241697> You can find more information on the Internet at: [www.siemens.com/sentron](http://www.siemens.com/sentron)

##### Communication:

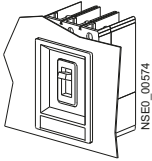
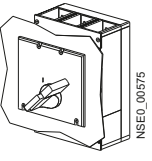
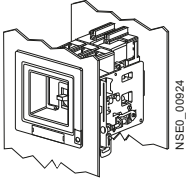
- For molded case circuit breakers with communication function see pages 2/14 to 2/30, 2/42 to 2/52.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

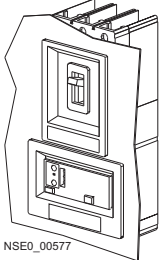
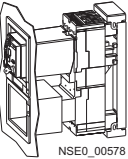
# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL160X (3VL1) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole</b>							
<b>Masking frames (cover frames) For door cutouts</b>							
 NSE0_00574	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in circuit breaker	<b>3VL9300-8BC00</b>	1	1 unit	113	0.060
Masking frame A	<b>B<sup>1)</sup></b> <b>IP40</b>	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)	<b>3VL9300-8BG00</b>	1	1 unit	113	0.131
 NSE0_00575	<b>C</b> <b>IP20</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	--				
Masking frame B	<b>D</b> <b>IP40</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame	<b>3VL9300-8BD00</b>	1	1 unit	113	0.046
 NSE0_00924	<b>E<sup>1)</sup></b> <b>IP40</b>	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon	--				
Masking frame C		Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	--				

Version	DT	For VL400 (3VL4) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole</b>							
<b>Masking frames (cover frames) For door cutouts</b>							
 NSE0_00577	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in circuit breaker	<b>3VL9400-8BC00</b>	1	1 unit	113	0.050
Masking frame D	<b>B<sup>1)2)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms)	<b>3VL9400-8BG00</b>	1	1 unit	113	0.180
 NSE0_00578	<b>C</b> <b>IP20</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	<b>3VL9400-8BH00</b>	1	1 unit	113	0.403
Masking frame E	<b>D</b> <b>IP40</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame	<b>3VL9400-8BC00</b>	1	1 unit	113	0.050
		RCD masking frame	<b>3VL9400-8BD00</b>	1	1 unit	113	0.044
	<b>E<sup>1)</sup></b> <b>IP40</b>	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon	<b>3VL9400-8BH00</b>	1	1 unit	113	0.403
		Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	<b>3VL9400-8BJ00</b>	1	1 unit	113	0.516

<sup>1)</sup> For withdrawable version IP20.

<sup>2)</sup> As motorized operating mechanism (without stored energy mechanism) for the 3VL4-3VL6 use MLFB 3VL9300-8BG00.

# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

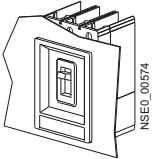
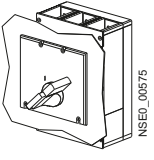
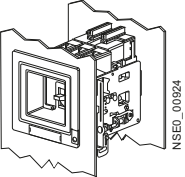
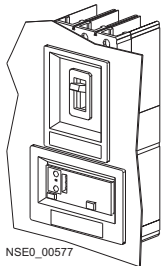
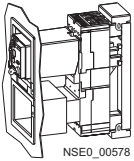
DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9300-8BC00</b>		1	1 unit	113	0.060		<b>3VL9300-8BC00</b>		1	1 unit	113	0.060
	<b>3VL9300-8BG00</b>		1	1 unit	113	0.131		<b>3VL9300-8BG00</b>		1	1 unit	113	0.131
	<b>3VL9300-8BH00</b>		1	1 unit	113	0.330		<b>3VL9300-8BH00</b>		1	1 unit	113	0.330
	<b>3VL9300-8BC00</b>		1	1 unit	113	0.060		<b>3VL9300-8BC00</b>		1	1 unit	113	0.060
	<b>3VL9300-8BD00</b>		1	1 unit	113	0.046		<b>3VL9300-8BD00</b>		1	1 unit	113	0.046
	<b>3VL9300-8BH00</b>		1	1 unit	113	0.330		<b>3VL9300-8BH00</b>		1	1 unit	113	0.330
	<b>3VL9300-8BJ00</b>		1	1 unit	113	0.314		<b>3VL9300-8BJ00</b>		1	1 unit	113	0.314
DT	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	<b>3VL9600-8BC00</b>		1	1 unit	113	0.078		<b>3VL9600-8BC00</b>		1	1 unit	113	0.078
	<b>3VL9600-8BG00</b>		1	1 unit	113	0.210		<b>3VL9600-8BG00</b>		1	1 unit	113	0.210
	<b>3VL9600-8BH00</b>		1	1 unit	113	0.335		<b>3VL9600-8BH00</b>		1	1 unit	113	0.335
	--							--					
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# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

Version	DT	For VL1250 (3VL7) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
<b>Further accessories</b>							
<b>3- or 4-pole Masking frames (cover frames) For door cutouts</b>							
 <p>Masking frame A</p>	<b>A</b> <b>IP40</b>	Fixed-mounted or plug-in circuit breaker		<b>3VL9800-8BC00</b>	1	1 unit	113 0.059
 <p>Masking frame B</p>	<b>B<sup>1)</sup></b> <b>IP40</b>	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism		<b>3VL9800-8BG00</b>	1	1 unit	113 0.272
 <p>Masking frame C</p>	<b>C</b> <b>IP20</b>	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/ rotary operating mechanism)		<b>3VL9800-8BH00</b>	1	1 unit	113 0.418
 <p>Masking frame D</p>	<b>D</b> <b>IP40</b>	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	-- --	-- --			
 <p>Masking frame E</p>	<b>E<sup>1)</sup></b> <b>IP40</b>	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	-- --	-- --			

<sup>1)</sup> For withdrawable version IP20.

# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

DT	For VL1600 (3VL8) Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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3VL9800-8BC00

1 1 unit 113 0.059

3VL9800-8BG00

1 1 unit 113 0.272

3VL9800-8BH00

1 1 unit 113 0.418

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# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

#### General criteria for the selection of current transformers for measurement purposes



4NC53 current transformers

<b>Standards</b>	EN 60044-1, VDE 0414-44-1
<b>Window-type current transformers</b>	The conductor to be measured (busbar or cable) is passed through the window opening and constitutes the primary circuit of the window-type current transformer. Pin-wound transformers: An economical solution especially for small primary currents of 5 ... 75 A are window-type current transformers when the conductor to be measured is pin-wound several times.
<b>Rated primary current <math>I_{pn}</math></b>	Current transformers can be continuously loaded with 1.3 times the rated primary current ( $I_{pn}$ ).
<b>Rated secondary current <math>I_{sn}</math></b>	
1 A	Particularly suitable for longer measuring leads. Cable losses of only 4 % in contrast to 5 A current transformers.
5 A	5 A current transformers generate 25 times the power losses on measuring leads as compared with 1 A current transformers. These stray losses result in higher power in the case of long cables. Only recommended for use with short measuring leads.
<b>Accuracy class</b>	
Class 1	Operation measurement, internal metering Current error $\pm 1\%$ at $1 \times I_{pn}$ and $1.2 \times I_{pn}$
Class 3	Coarse measurement Current error $\pm 3\%$ at $0.5 \times I_{pn}$ and $1.2 \times I_{pn}$
<b>Rated power <math>P_n</math></b>	The rated power of transformers is specified in VA. The actual load rating should be similar to the rated power; a lower actual load rating (underburden) increases the overcurrent factor and measuring devices are not sufficiently protected in case of a short-circuit, a higher actual load rating (overburden) has a negative effect on the accuracy. With a frequency of 60 Hz the rated power increases to 1.2 times. With $16\frac{2}{3}$ Hz the output power decreases to $\frac{1}{3}$ of the rated power.
<b>Maximum voltage for equipment <math>U_m</math></b>	This is the rms value of the maximum voltage between the conductors of a system. For this voltage the insulation must be rated at normal operating conditions. 4NC5 current transformers are suitable for 720 V.
<b>Overcurrent limiting factor FS</b>	The overcurrent limiting factor is expressed using the characters FS and a factor, e. g. FS5 or FS10. When a short-circuit current flows through the primary winding of a current transformer, the stress on the measuring devices connected to the current transformer is the lower the smaller the overcurrent limiting factor is.
<b>Rated short-time thermal current <math>I_{th}</math></b>	The rated short-time thermal current $I_{th}$ is the rms value of the primary current with a duration of one second, whose heat effect the current transformer can resist without being damaged in the event of a short-circuited secondary winding.
<b>Rated impulse current <math>I_{dyn}</math></b>	The rated impulse current $I_{dyn}$ is the highest instantaneous value of the current after a short circuit whose force the current transformer can resist without being damaged. The rated impulse current is specified as peak value.






# Molded Case Circuit Breakers

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

### Accessories and spare parts

2

#### 4NC current transformers for measuring purposes

	Rated primary current $I_{pn}$	Rating $P_n$	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.							
	A	VA							kg							
<b>Classes 1 and 3, from 50 to 1,500 A</b>																
	<b>Rated secondary current 1A</b>															
	<b>Class 3</b>															
	• For circular conductors with max. diameter 17.5 mm															
	• For busbars up to max. 12 mm × 10 mm															
4NC5112-0BC20	50	2.5		<b>4NC5112-0BC20</b>		1	1 unit	103	0.424							
	60	2.5		<b>4NC5113-0BC20</b>		1	1 unit	103	0.432							
	75	2.5		<b>4NC5115-0BC20</b>		1	1 unit	103	0.434							
	<b>Class 1</b>															
	• For circular conductors with max. diameter 17.5 mm															
	• For 1 busbar up to max. 12 mm × 10 mm															
	4NC5117-0CC20	100	2.5								<b>4NC5117-0CC20</b>		1	1 unit	103	0.335
		150	2.5								<b>4NC5121-0CC20</b>		1	1 unit	103	0.327
	200	5		<b>4NC5122-0CE20</b>		1	1 unit	103	0.349							
	250	5		<b>4NC5123-0CE20</b>		1	1 unit	103	0.353							
	• For circular conductors with max. diameter 28 mm															
	• For 1 busbar up to max. 30 mm × 10 mm															
	• For 2 busbars up to max. 25 mm × 5 mm															
	4NC5222-0CE20	200	5								<b>4NC5222-0CE20</b>		1	1 unit	103	0.464
		250	5								<b>4NC5223-0CE20</b>		1	1 unit	103	0.466
	300	5		<b>4NC5224-0CE20</b>		1	1 unit	103	0.363							
	400	5		<b>4NC5225-0CE20</b>		1	1 unit	103	0.368							
	• For circular conductors with max. diameter 36 mm															
	• For 1 busbar up to max. 50 mm × 10 mm															
	• For 2 busbars up to max. 40 mm × 5 mm															
	4NC5325-0CE20	400	5								<b>4NC5325-0CE20</b>		1	1 unit	103	0.458
		500	5								<b>4NC5326-0CE20</b>		1	1 unit	103	0.399
	600	5		<b>4NC5327-0CE20</b>		1	1 unit	103	0.431							
	750	5		<b>4NC5328-0CE20</b>		1	1 unit	103	0.396							
	• For circular conductors with max. diameter 45 mm															
	• For 1 busbar up to max. 60 mm × 10 mm															
	• For 2 busbars up to max. 60 mm × 10 mm															
	• For 3 busbars up to max. 60 mm × 5 mm															
	4NC5431-0CH20	1000	10								<b>4NC5431-0CH20</b>		1	1 unit	103	0.650
	1250	10		<b>4NC5433-0CH20</b>		1	1 unit	103	0.654							
	1500	10		<b>4NC5434-0CH20</b>		1	1 unit	103	0.733							

#### 4NC51 window-type current transformers, used as pin-wound transformers, Classes 1 and 3, from 5 A to 75 A

Pin-winding increases the primary current of the current transformer. Consequently, window-type current transformers can also be used for low primary currents.

Basic type	4NC5112	4NC5113	4NC5115	4NC5117	4NC5121	4NC5122	4NC5123	
Rated primary current A	50	60	75	100	150	200	250	
Rating VA	2.5	2.5	2.5	2.5	2.5	5	5	
Primary current to be measured	Number of required pin windings							
	A	Class 3			Class 1			
	5	10	--	--	--	--	--	
	10	5	6	--	10	--	--	
	15	--	4	5	--	10	--	
	20	--	3	--	5	--	10	
	25	2	--	3	4	6	8	
	30	--	2	--	--	5	--	
	40	--	--	--	--	--	5	
	50	--	--	--	2	3	4	
	75	--	--	--	--	2	--	







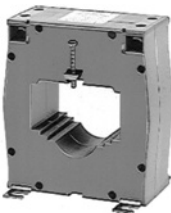
4NC51 used as pin-wound transformer

# Molded Case Circuit Breakers

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

2

### Accessories and spare parts

	Rated primary current $I_{pn}$	Rating $P_n$	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	VA							kg
<b>Rated secondary current 5 A</b>									
<b>Class 3</b>									
 4NC5112-2BC20	<ul style="list-style-type: none"> <li>For circular conductors with max. diameter 17.5 mm</li> <li>For 1 busbar up to max. 12 mm × 10 mm</li> </ul>								
	50	2.5		<b>4NC5112-2BC20</b>		1	1 unit	103	0.431
	60	2.5		<b>4NC5113-2BC20</b>		1	1 unit	103	0.427
	75	2.5		<b>4NC5115-2BC20</b>		1	1 unit	103	0.420
<b>Class 1</b>									
 4NC5117-2CC20	<ul style="list-style-type: none"> <li>For circular conductors with max. diameter 17.5 mm</li> <li>For 1 busbar up to max. 12 mm × 10 mm</li> </ul>								
	100	2.5		<b>4NC5117-2CC20</b>		1	1 unit	103	0.342
	150	2.5		<b>4NC5121-2CC20</b>		1	1 unit	103	0.321
	200	5		<b>4NC5122-2CE20</b>		1	1 unit	103	0.356
	250	5		<b>4NC5123-2CE20</b>		1	1 unit	103	0.344
 4NC5222-2CE20	<ul style="list-style-type: none"> <li>For circular conductors with max. diameter 28 mm</li> <li>For 1 busbar up to max. 30 mm × 10 mm</li> <li>For 2 busbars up to max. 25 mm × 5 mm</li> </ul>								
	200	5		<b>4NC5222-2CE20</b>		1	1 unit	103	0.468
	250	5		<b>4NC5223-2CE20</b>		1	1 unit	103	0.474
	300	5		<b>4NC5224-2CE20</b>		1	1 unit	103	0.363
	400	5		<b>4NC5225-2CE20</b>		1	1 unit	103	0.374
 4NC5325-2CE20	<ul style="list-style-type: none"> <li>For circular conductors with max. diameter 36 mm</li> <li>For 1 busbars up to max. 50 mm × 10 mm</li> <li>For 2 busbars up to max. 40 mm × 5 mm</li> </ul>								
	400	5		<b>4NC5325-2CE20</b>		1	1 unit	103	0.460
	500	5		<b>4NC5326-2CE20</b>		1	1 unit	103	0.407
	600	5		<b>4NC5327-2CE20</b>		1	1 unit	103	0.430
	750	5		<b>4NC5328-2CE20</b>		1	1 unit	103	0.390
 4NC5431-2CH20	<ul style="list-style-type: none"> <li>For circular conductors with max. diameter 45 mm</li> <li>For 1 busbar up to max. 60 mm × 10 mm</li> <li>For 2 busbars up to max. 60 mm × 10 mm</li> <li>For 3 busbars up to max. 60 mm × 5 mm</li> </ul>								
	1000	10		<b>4NC5431-2CH20</b>		1	1 unit	103	0.644
	1250	10		<b>4NC5433-2CH20</b>		1	1 unit	103	0.640
	1500	10		<b>4NC5434-2CH20</b>		1	1 unit	103	0.686

#### More information

##### 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](http://www.siemens.com/lowvoltage/manuals)

##### SENTRON manual for communication solutions

Free download from  
[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

See also "Air Circuit Breakers", "3WL Air Circuit Breakers/ Non-Automatic Air Circuit Breakers for AC up to 6300 A, IEC", "Accessories and spare parts".