



Circuit breaker size S3 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 15 A Short-circuit release 225 A Screw terminal Standard switching capacity !!! Phased-out product !!! Successor is SIRIUS 3RV2 Preferred successor type is >>3RV2742-5BD10<<

<b>product brand name</b>	SIRIUS
<b>product designation</b>	circuit breaker
<b>design of the product</b>	for plant protection according to UL 489/CSA C22.2 No.5
<b>General technical data</b>	
product extension auxiliary switch	Yes
<b>power loss [W] for rated value of the current</b>	
• at AC in hot operating state	14 W
• at AC in hot operating state per pole	4.7 W
<b>surge voltage resistance rated value</b>	6 000 V
protection class IP on the front	IP20
<b>shock resistance</b>	25g / 11 ms
mechanical service life (switching cycles) of the main contacts typical	50 000
<b>continuous current rated value</b>	15 A
Substance Prohibitance (Date)	01.07.2006 00:00:00
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
• ambient temperature during operation	-20 ... +60 °C
• ambient temperature during storage	-50 ... +80 °C
• ambient temperature during transport	-50 ... +80 °C
<b>Main circuit</b>	
<b>number of poles for main current circuit</b>	3
<b>adjustable current response value current of the current-dependent overload release</b>	15 ... 15 A
• operating voltage rated value	690 V
• operating voltage at AC-3 rated value maximum	690 V
operational current at AC-3 at 400 V rated value	15 A
operating frequency at AC-3 maximum	15 1/h
<b>Auxiliary circuit</b>	
number of CO contacts for auxiliary contacts	0
<b>Protective and monitoring functions</b>	
<b>product function</b>	
• ground fault detection	No
• phase failure detection	No
<b>breaking capacity maximum short-circuit current (Icu)</b>	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA

- at AC at 500 V rated value 30 kA
- at AC at 690 V rated value 12 kA
- at 480 AC Y/277 V acc. to UL 489 rated value 65 kA

### Short-circuit protection

<b>design of the overcurrent release and short-circuit release</b>	thermomagnetic
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### Installation/ mounting/ dimensions

<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
<b>height</b>	168 mm
<b>width</b>	70 mm
<b>depth</b>	174 mm
required spacing with side-by-side mounting	
• backwards	0 mm
• at the side	0 mm






### Connections/ Terminals

product function removable terminal for auxiliary and control circuit	No
<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals with box terminals
• for auxiliary and control circuit	screw-type terminals
<b>arrangement of electrical connectors for main current circuit</b>	front side
<b>type of connectable conductor cross-sections</b>	
• for main contacts	
— solid	2x (2.5 ... 16 mm <sup>2</sup> )
— stranded	2x (10 ... 50 mm <sup>2</sup> ), 1x (10 ... 70 mm <sup>2</sup> )
— finely stranded with core end processing	2x (2.5 ... 35 mm <sup>2</sup> ), 2.5 ... 50 mm <sup>2</sup>
• at AWG cables for main contacts	2x (10 ... 1), 1x (10 ... 2)

### Safety related data

<b>touch protection against electrical shock</b>	finger-safe
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### Certificates/ approvals

General Product Approval	Declaration of Conformity
   	<a href="#">Miscellaneous</a> 

Test Certificates	Marine / Shipping	other
<a href="#">Special Test Certificate</a>	 	<a href="#">Miscellaneous</a> <a href="#">Confirmation</a>

Railway
<a href="#">Special Test Certificate</a>

Further information
Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1742-5BD10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1742-5BD10>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1742-5BD10>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

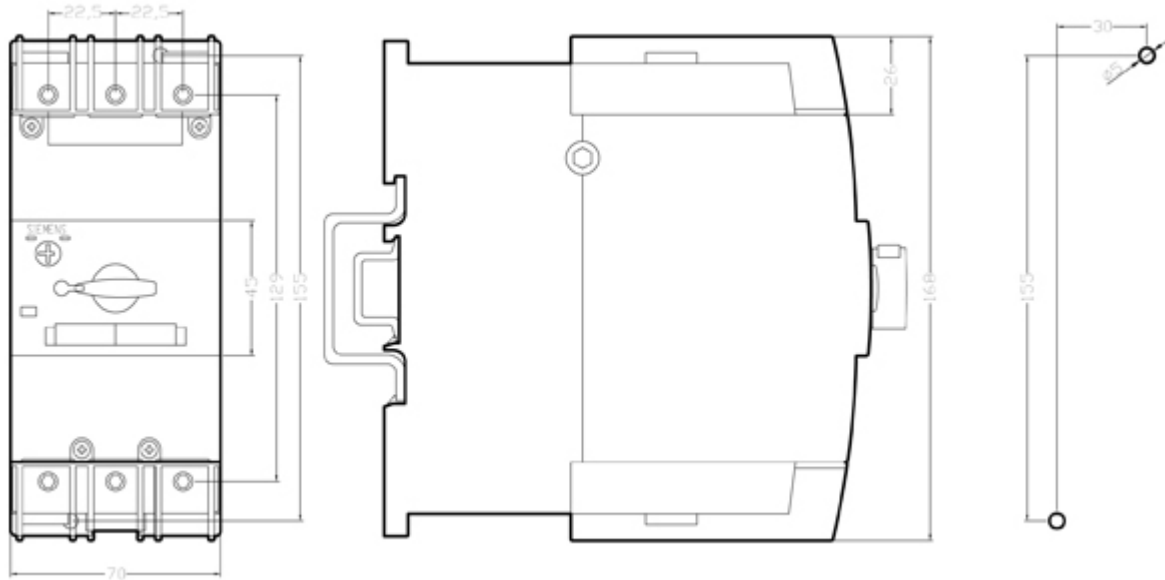
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV1742-5BD10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1742-5BD10&lang=en)

Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1742-5BD10/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1742-5BD10&objecttype=14&gridview=view1>



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12/23/2020 