

CIRCUIT-BREAKER, SIZE S3, FOR PLANT PROTECTION, WITH APPROVAL CIRCUIT-BREAKER UL 489, CSA C22.2 NO.5-02, A-TRIGGER 10 A, N-TRIGGER 150 A, SCREW CONNECTION,



product brandname	SIRIUS
Product designation	Circuit breaker
Design of the product	For system protection according to UL 489/CSA C22.2 No. 5
Product type designation	3RV2

General technical data	
Size of the circuit-breaker	S3
Size of contactor can be combined company-specific	S3
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	8 W
Insulation voltage with degree of pollution 3 rated value	1 000 V
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
• in networks with grounded star point between main and auxiliary circuit	400 V
• in networks with grounded star point between main and auxiliary circuit	400 V

Protection class IP	
• on the front	IP20
• of the terminal	IP00
Mechanical service life (switching cycles)	
• of the main contacts typical	25 000
• of auxiliary contacts typical	25 000
Electrical endurance (switching cycles)	
• typical	25 000
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Equipment marking acc. to DIN EN 81346-2	Q

Ambient conditions

Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C
Temperature compensation	-20 ... +60 °C

Main circuit

Number of poles for main current circuit	3
Operating voltage	
• rated value	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current rated value	10 A

Protective and monitoring functions

Product function	
• Ground fault detection	No
• Phase failure detection	Yes
Design of the overload release	thermal
Operational short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 000 A
• at 400 V rated value	50 000 A
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	100 kA
• at 480 AC Y/277 V acc. to UL 489 rated value	65 000 A

Short-circuit protection

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic

Installation/ mounting/ dimensions

Mounting position	any
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Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	170 mm
Width	70 mm
Depth	176 mm
Required spacing	
• with side-by-side mounting — forwards 0 mm — Backwards 0 mm — upwards 150 mm — downwards 150 mm — at the side 0 mm • for grounded parts — forwards 0 mm — Backwards 0 mm — upwards 150 mm — at the side 30 mm — downwards 150 mm • for live parts — forwards 0 mm — Backwards 0 mm — upwards 150 mm — downwards 150 mm — at the side 30 mm	

Connections/Terminals

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for main current circuit	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts — solid 2x (2.5 ... 16 mm²) — single or multi-stranded 2x (2,5 ... 50 mm²), 1x (10 ... 70 mm²)	
Tightening torque	
• for main contacts with screw-type terminals	4.5 ... 6 N·m

Safety related data

Proportion of dangerous failures	
• with low demand rate acc. to SN 31920	50 %

• with high demand rate acc. to SN 31920	50 %
Failure rate [FIT]	
• with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
Display version	
• for switching status	Handle

Certificates/approvals

General Product Approval			Declaration of Conformity	Test Certificates	
				Special Test Certificate	Declaration of the Compliance with the order
CCC	CSA	UL	EG-Konf.		

other

[Confirmation](#)

[Miscellaneous](#)

Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2742-5AD10>

Cax online generator

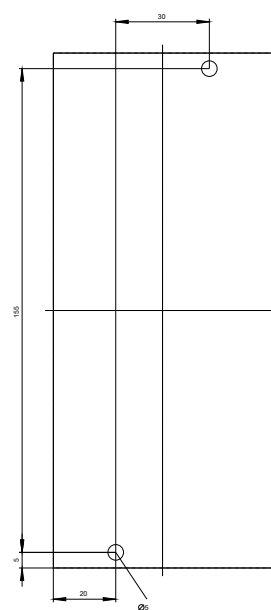
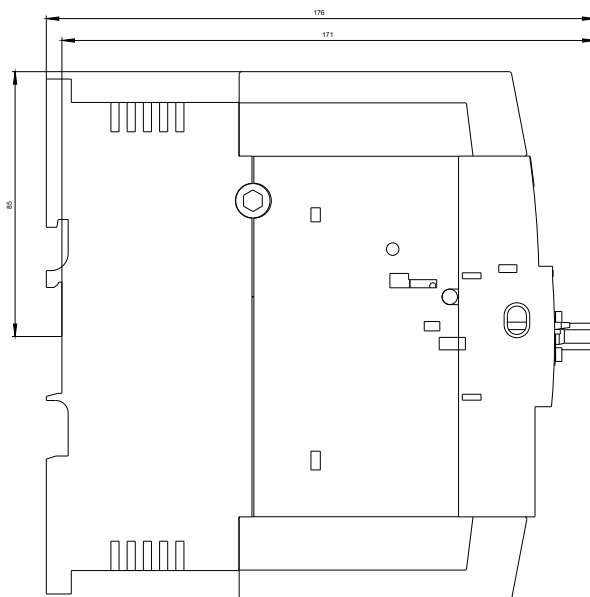
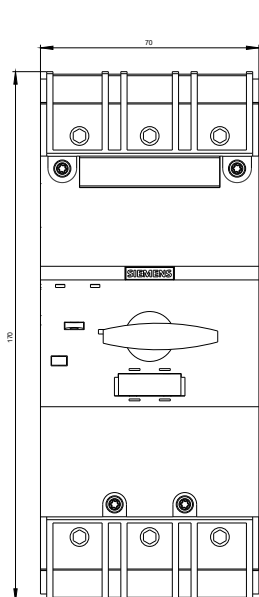
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2742-5AD10>

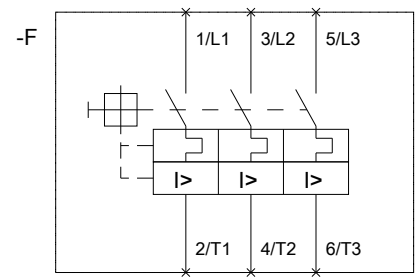
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2742-5AD10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2742-5AD10&lang=en





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