



CIRCUIT-BREAKER SIZE S3 A-RELEASE 80...100 A, N-RELEASE 1235 A, MOTOR PROTECTION UP TO 100 KA, CLASS 20, SCREW CONNECTION INCREASED BREAKING CAPACITY

Figure similar

product brand name	SIRIUS
Product designation	circuit breaker
Design of the product	for motor protection

General technical data:

Product expansion	
• Auxiliary switch	Yes
Active power loss total typical	38 W
Surge voltage resistance Rated value	6 000 V
Protection class IP	
• on the front	IP20
Mechanical service life (switching cycles)	
• of the main contacts typical	50 000

Ambient conditions:

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
• during operation	-20 ... +60 °C
• during storage	-50 ... +80 °C
• during transport	-50 ... +80 °C

Main circuit:

Adjustable response value current of the current-dependent overload release	80 ... 100 A
Operating voltage	
• Rated value	690 V

• at AC-3 Rated value maximum	690 V
Operating current	
• at AC-3 — at 400 V Rated value	100 A
Operating power	
• at AC-3 — at 400 V Rated value	45 kW
Operating frequency	
• at AC-3 maximum	15 1/h

Auxiliary circuit:

Number of CO contacts	
• for auxiliary contacts	0

Protective and monitoring functions:

Trip class	CLASS 20
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V Rated value	100 kA
• with AC at 400 V Rated value	100 kA
• at AC at 500 V Rated value	10 kA
• at AC at 690 V Rated value	6 kA

Short-circuit:

Design of the overcurrent release and short-circuit release	thermomagnetic
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Installation/ mounting/ dimensions:

mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Height	165 mm
Width	70 mm
Depth	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
Type of electrical connection	
• for main current circuit	screw-type terminals with box terminals
• for auxiliary and control current circuit	screw-type terminals

Arrangement of electrical connectors for main current circuit	front side
Type of connectable conductor cross-section • for main contacts — solid — stranded — finely stranded with core end processing • for AWG conductors for main contacts	2x (2.5 ... 16 mm ²) 2x (10 ... 50 mm ²), 1x (10 ... 70 mm ²) 2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ² 2x (10 ... 1), 1x (10 ... 2)

Mechanical data:

Size of the circuit-breaker	S3
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Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates
 CCC	 EAC	 EG-Konf.
 CSA		spezielle Prüfbescheinigungen n
 UL		

Shipping Approval	other
 ABS	sonstig
 BUREAU VERITAS	
 DNV	
 GL	
 RMRS	

other
Umweltbestätigung
Bestätigungen
 VDE

Further information

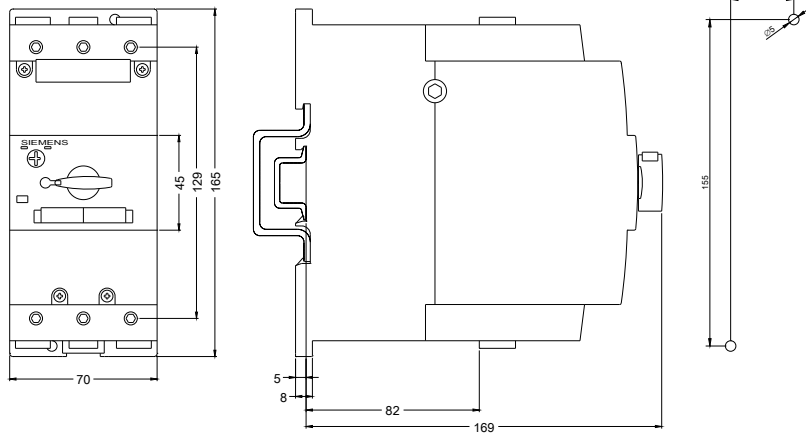
Information- and Downloadcenter (Catalogs, Brochures,...)
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)
<http://www.siemens.com/industrymall>

Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10424MB10>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3RV10424MB10>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10424MB10&lang=en



last modified:

29.06.2015