



CIRCUIT-BREAKER SIZE S3, A-REL. 57...75A, N-REL. 975A,
MOTOR PROT. TO 100KA, CL. 20 SCREW TERMINAL,
INCREASED SWITCHING CAPACITY INCREASED SWITCHING
CAPACITY

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	30 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	57 ... 75 A
• Operating voltage Rated value	690 V
• Operating voltage at AC-3 Rated value maximum	690 V

Operating current	
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value 	75 A
Operating power	
<ul style="list-style-type: none"> • at AC-3 <ul style="list-style-type: none"> — at 400 V Rated value 	37 kW
Operating frequency	
<ul style="list-style-type: none"> • at AC-3 maximum 	15 1/h

Auxiliary circuit:

Number of CO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0

Protective and monitoring functions:

Trip class	CLASS 20
Maximum short-circuit current breaking capacity (I_{cu})	
<ul style="list-style-type: none"> • with AC at 240 V Rated value • with AC at 400 V Rated value • with AC at 500 V Rated value • with AC at 690 V Rated value 	100 kA 100 kA 10 kA 6 kA

Short-circuit:

Design of the overcurrent release and short-circuit release	thermomagnetic
--	----------------

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	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — Backwards — at the side 	0 mm 0 mm

Connections/ Terminals:

Product function	
<ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 	screw-type terminals with box terminals 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 mm²)
 2x (10 ... 50 mm²), 1x (10 ... 70 mm²)
 2x (2.5 ... 35 mm²), 2.5 ... 50 mm²
 2x (10 ... 1), 1x (10 ... 2)

Mechanical data:

Size of the circuit-breaker S3

Certificates/ approvals:

General Product Approval	Declaration of Conformity	Test Certificates
--------------------------	---------------------------	-------------------



[spezielle Prüfbescheinigung](#)
[n](#)

Shipping Approval	other
-------------------	-------



[Umweltbestätigung](#)

other

[sonstig](#)

[Bestätigungen](#)



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

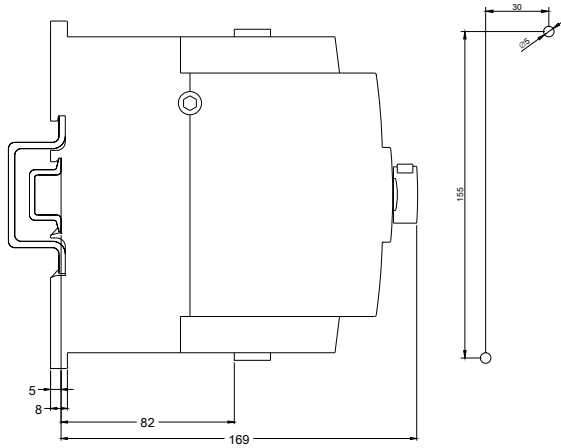
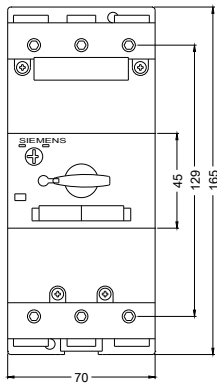
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV10424KB10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV10424KB10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV10424KB10&lang=en



last modified:

27.06.2015