



CIRCUIT-BREAKER SIZE S3, A-REL.80...100 A,N-REL.1235A MOTOR PROT. TO 100KA, CL. 10, SCREW
TERMINAL, INCREASED SWITCHING CAPACITY
INCREASED SWITCHING CAPACITY

General technical data:		
product brand name		SIRIUS
product designation		circuit breaker
Size of the circuit-breaker		S3
Trip class		CLASS 10
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Protection class IP / on the front		IP20
Ambient temperature		
• during storage	°C	-50...+80
• during operating	°C	-20...+70
• during transport	°C	80...-50
Resistance against shock		25g / 11 ms
Insulation voltage / rated value	V	690
Impulse voltage resistance / rated value	V	6,000
Active power loss / total / typical	W	38
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		Q
• according to DIN EN 61346-2		Q
Mechanical operating cycles as operating time / of the main contacts / typical		50,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
• overload protection		Yes
• phase disturbance recognition		Yes

Product component	
• auxiliary switch	No
• undervoltage release mechanism	No
• trip indicator	No
Product extension / optional / motor drive	Yes

Main circuit:		
Number of poles / for main current circuit		3
type of voltage		AC/DC
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	A	100
Service power / at AC-3		
• at 400 V / rated value	kW	45
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		front side
Adjustable response current		
• of the non-delayed short-circuit release	A	1,235...1,235
Adjustable response current		
• of the current-dependent overload release	A	80...100
Continuous current / rated value	A	100
Product extension / auxiliary switch		Yes

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous switching		0
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Number of change-over switches / for auxiliary contacts		0

Inputs/ Outputs:		
Number of digital inputs		0

Short-circuit:		
Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value	kA	100
• at 500 V / rated value	kA	10
• at 690 V / rated value	kA	6
Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:		
Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Width	mm	70
Height	mm	165
Depth	mm	174
Distance, to be maintained, to the ranks assembly		
• backwards	mm	0
• sideways	mm	0
Product function / removable terminal for auxiliary and control circuit		No

Connections:		
Design of the electrical connection		
• for main current circuit		screw-type terminals with box terminals
Type of the connectable conductor cross-section		

- for main contacts
 - solid
 - stranded
 - finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts

2x (2.5 ... 16 mm²)
 2x (10 ... 50 mm²), 10 ... 70 mm²

2x (2.5 ... 35 mm²), 2.5 ... 50 mm²
 2x (10 ... 1), 1x (10 ... 2)

Conductor cross section that can be connected / for main contacts

- solid
- stranded
- stranded wire
 - with conductor end processing

mm² 2.5...16
 mm² 10...70
 mm² 2.5...50

Certificates/approvals:

General Product Approval

<input checked="" type="checkbox"/> CQC	<input checked="" type="checkbox"/> CSA	ROSTEST	<input checked="" type="checkbox"/> UL
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Shipping Approval

<input checked="" type="checkbox"/> ABS (American Bureau of Shipping)	<input checked="" type="checkbox"/> BV (Bureau Veritas)	<input checked="" type="checkbox"/> DNV (Det Norske Veritas)	<input checked="" type="checkbox"/> GL (Germanischer Lloyd)
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other

Manufacturer other

Safety:

Protection against electrical shock finger-safe

Further information:

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

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

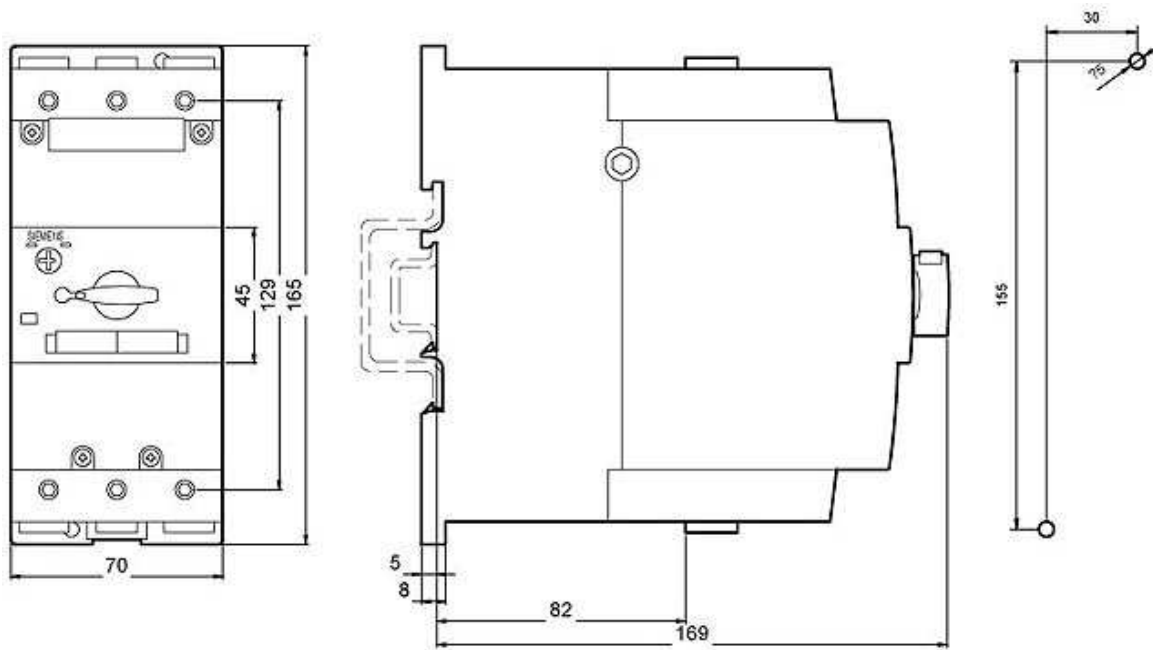
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV1042-4MA10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1042-4MA10



last change:

Feb 6, 2012