

CIRCUIT-BREAKER, 9...12 A, N-RELEASE 156 A, SIZE S00,
MOTOR PROTECTION, CLASS 10, SCREW CONNECTION
STANDARD BREAKING CAPACITY MULTI-UNIT PACKING
PACKING = 96 ITEMS

product brand name	SIRIUS
Product designation	Circuit breaker
Design of the product	For motor protection

General technical data	
Size of the circuit-breaker	S00
Size of contactor can be combined company-specific	S00
Product extension	
• Auxiliary switch	Yes
Power loss [W] total typical	7 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 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	100 000
• of auxiliary contacts typical	100 000
Electrical endurance (switching cycles)	
• typical	100 000
Type of protection	Increased safety
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	Q

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
Temperature compensation	-20 ... +60 °C
Relative humidity during operation	10 ... 95 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	9 ... 12 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current rated value	12 A
Operating current	
• at AC-3	
— at 400 V rated value	12 A
Operating power	
• at AC-3	
— at 230 V rated value	3 000 W
— at 400 V rated value	5 500 W
— at 500 V rated value	5 500 W
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 10
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	12 500 A
• at 500 V rated value	3 000 A
• at 690 V rated value	2 000 A
Maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
• at AC at 400 V rated value	50 kA
• at AC at 500 V rated value	3 kA
• at AC at 690 V rated value	2 kA
Breaking capacity short-circuit current (Icn)	
• at 1 current path at DC at 150 V rated value	10 kA

- with 2 current paths in series at DC at 300 V rated value
- with 3 current paths in series at DC at 450 V rated value

10 kA

10 kA

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor

- at 480 V rated value
- at 600 V rated value

12 A

12 A

Yielded mechanical performance [hp]

- for single-phase AC motor
 - at 110/120 V rated value
 - at 230 V rated value
- for three-phase AC motor
 - at 200/208 V rated value
 - at 220/230 V rated value
 - at 460/480 V rated value
 - at 575/600 V rated value

0.5 hp

2 hp

3 hp

3 hp

7.5 hp

10 hp

Short-circuit protection

Design of the short-circuit trip

magnetic

Design of the fuse link for IT network for short-circuit protection of the main circuit

- at 240 V
- at 400 V
- at 500 V
- at 690 V

gL/gG 80 A

gL/gG 80 A

gL/gG 50 A

gL/gG 50 A

Installation/ mounting/ dimensions

Mounting position

any

Mounting type

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

Height

90 mm

Width

45 mm

Depth

81 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 — single or multi-stranded — finely stranded with core end processing	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x (1 ... 4 mm ²) 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
Type of connectable conductor cross-sections - for auxiliary contacts — single or multi-stranded	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
Tightening torque - for main contacts with screw-type terminals - for auxiliary contacts with screw-type terminals	0.8 ... 1.2 N·m 0.8 ... 1.2 N·m
Design of the thread of the connection screw for main contacts	M3

Safety related data	
B10 value with high demand rate acc. to SN 31920	5 000
Proportion of dangerous failures - with low demand rate acc. to SN 31920 - with high demand rate acc. to SN 31920	50 % 50 %
Failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT
Display version for switching status	Rocker switch

Certificates/approvals	
General Product Approval	For use in hazardous locations



Declaration of Conformity	Test Certificates	Shipping Approval			
 EG-Konf.	spezielle Prüfbescheinigungen n	 ABS	 BUREAU VERITAS	 DNV	 LRS

Shipping Approval	other				
 RINA	 RMRS	Bestätigungen	Umweltbestätigung	sonstig	 VDE

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=3RV1011-1KA10-Z W95>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1KA10-Z W95>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1KA10-Z W95>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1KA10-Z W95&lang=en

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