

CIRCUIT-BREAKER 14...20 A, N-RELEASE 260 A, SIZE S2,
MOTOR PROTECTION CLASS 10 SCREW CONNECTION
STANDARD BREAKING CAPACITY

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

General technical data

Product extension	Yes
<ul style="list-style-type: none"> Auxiliary switch 	
Power loss [W] total typical	12 W
Surge voltage resistance rated value	6 000 V
Protection class IP	IP20
<ul style="list-style-type: none"> on the front 	
Shock resistance	25g / 11 ms
Mechanical service life (switching cycles)	50 000
<ul style="list-style-type: none"> of the main contacts typical 	
Continuous current rated value	20 A

Ambient conditions

Installation altitude at height above sea level	2 000 m
<ul style="list-style-type: none"> maximum 	
Ambient temperature	-20 ... +60 °C
<ul style="list-style-type: none"> during operation during storage during transport 	-50 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	14 ... 20 A
Operating voltage	690 V
<ul style="list-style-type: none"> rated value at AC-3 rated value maximum 	690 V
Operating current	20 A
<ul style="list-style-type: none"> at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	
Operating power	7.5 kW
<ul style="list-style-type: none"> at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	

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	
Product function	
<ul style="list-style-type: none"> • Ground fault detection 	No
<ul style="list-style-type: none"> • Phase failure detection 	Yes
Trip class	CLASS 10
Maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at AC at 240 V rated value 	100 kA
<ul style="list-style-type: none"> • at AC at 400 V rated value 	50 kA
<ul style="list-style-type: none"> • at AC at 500 V rated value 	12 kA
<ul style="list-style-type: none"> • at AC at 690 V rated value 	5 kA
Short-circuit protection	
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	140 mm
Width	55 mm
Depth	149 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 	screw-type terminals with box terminals
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	front side
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid 	2x (0.75 ... 16 mm ²)



- stranded
- finely stranded with core end processing
- at AWG conductors for main contacts

2x (0.75 ... 25 mm²), 1x (0.75 ... 35 mm²)
 2x (0.75 ... 16 mm²), 0.75 ... 25 mm²
 2x (18 ... 2), 1x (18 ... 2)

Certificates/approvals

General Product Approval			For use in hazardous locations		
					
CCC	CSA	UL	EAC	ATEX	IECEX

Declaration of Conformity	Test Certificates	Marine / Shipping			
	Special Test Certificate				
EG-Konf.		ABS	BUREAU VERITAS	LRS	RMRS

Marine / Shipping	other				
	Confirmation	Miscellaneous	Environmental Confirmations		
				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=3RV1031-4BA10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1031-4BA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV1031-4BA10>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1031-4BA10&lang=en

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