## SIEMENS

## Data sheet

## 3RV1011-0GA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A Screw terminal Standard switching capacity

1912 413	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
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] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
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
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.45 0.63 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.63 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.63 A

at AC-3e at 400 V rated value	0.63 A			
• at AC-3e at 400 V rated value operating power	0.00 A			
at AC-3				
- at 230 V rated value	0.1 kW			
— at 250 V rated value	0.1 KW			
- at 500 V rated value				
— at 690 V rated value	0.2 kW 0.3 kW			
• at AC-3e	0.5 KW			
- at 230 V rated value	0.1 kW			
— at 200 V rated value	0.18 kW			
- at 500 V rated value	0.18 kW 0.2 kW			
— at 690 V rated value	0.3 kW			
operating frequency	0.0 KW			
• at AC-3 maximum	15 1/h			
• at AC-3e maximum	15 1/h			
Auxiliary circuit				
number of CO contacts for auxiliary contacts	0			
Protective and monitoring functions	0			
product function				
ground fault detection	No			
phase failure detection	Yes			
trip class	CLASS 10			
design of the overload release	thermal			
maximum short-circuit current breaking capacity (Icu)				
at AC at 240 V rated value	100 kA			
at AC at 400 V rated value	100 kA			
at AC at 500 V rated value	100 kA			
at AC at 690 V rated value	100 kA			
operating short-circuit current breaking capacity (Ics) at AC				
at 240 V rated value	100 kA			
at 400 V rated value	100 kA			
at 500 V rated value	100 kA			
<ul> <li>at 690 V rated value</li> </ul>	100 kA			
response value current of instantaneous short-circuit trip unit	8.2 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	0.63 A			
<ul> <li>at 600 V rated value</li> </ul>	0.63 A			
Short-circuit protection				
product function short circuit protection	Yes			
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	none required			
● at 400 V	None required			
● at 500 V	gL/gG 6 A			
● at 690 V	gL/gG 6 A			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	90 mm			
width	45 mm			
depth	75 mm			
required spacing				
<ul> <li>for grounded parts at 400 V</li> </ul>				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
• for live parts at 400 V				
— downwards	20 mm			
— upwards	20 mm			

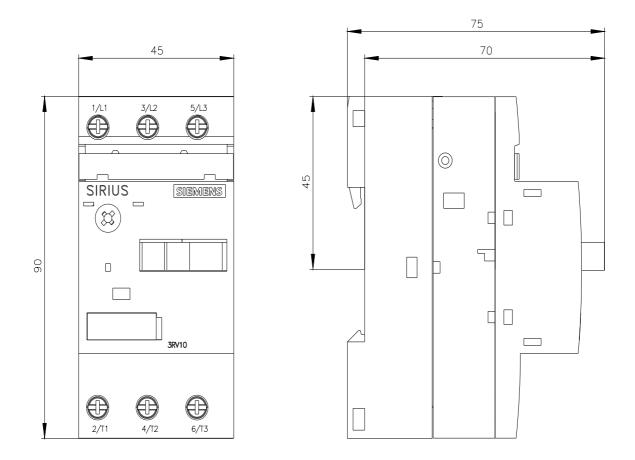
— at the side	9 mm				
<ul> <li>for grounded parts at 500 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
<ul> <li>for live parts at 500 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
<ul> <li>for grounded parts at 690 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
<ul> <li>for live parts at 690 V</li> </ul>					
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
Connections/ Terminals					
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					
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m				
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m				
size of the screwdriver tip	Pozidriv size 2				
design of the thread of the connection screw					
for main contacts	M3				
Safety related data					
B10 value					
<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000				
proportion of dangerous failures					
with low demand rate according to SN 31920	50 %				
<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %				
failure rate [FIT]					
with low demand rate according to SN 31920	50 FIT				
protection class IP on the front according to IEC 60529	IP20				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
display version for switching status	Rocker switch				
Certificates/ approvals					
General Product Approval	For use in hazardous locations				
Confirmation					
(M) (H)					
CCC UL	IECEx ATEX				
	Marine (Obligation				

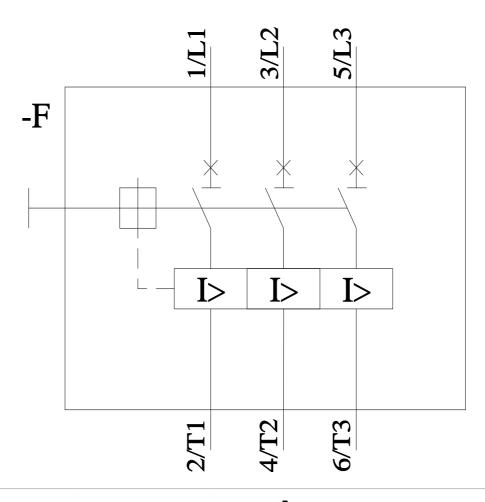
Declaration of Conformity

Test Certificates

Marine / Shipping

CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS			
Marine / Shipping					other			
Llovd's Kegister urs	PRS	RINA	RMRS RMRS	DNV-GL	<u>Confirmation</u>			
other		Railway						
<u>Miscellaneous</u>	UDE VDE	Special Test Certific- ate						
Siemens has decided t https://press.siemens.co Siemens is working on Please contact your loca	Further information         Siemens has decided to exit the Russian market (see here).         https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,)								
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0GA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0GA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0GA10								
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0GA10⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0GA10/char								
	Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0GA10&objecttype=14&gridview=view1							





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