SIEMENS

Data sheet

3RV1011-0JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A Screw terminal Standard switching capacity

472 4713	
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	
 at AC in hot operating state 	5.5 W
 at AC in hot operating state per pole 	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)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	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	0.7 1 A
operating voltage	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1 A
operational current	

 at AC-3 at 400 V rated value 	1 A
 at AC-3e at 400 V rated value 	1 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
operating frequency	0.0 KW
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
	15 1/11
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
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 (lcu)	
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 (lcs)	
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	100 kA
 at 690 V rated value 	100 kA
response value current of instantaneous short-circuit trip unit	13 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1A
at 600 V rated value	1 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
- at 575/600 V rated value	0.5 hp
	0.0 hp
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
	none required
● at 400 V ● at 500 V	gL/gG 10 A
• at 500 V • at 690 V	gL/gG 10 A
	gL/gG 10 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
boight	
height	90 mm
width	45 mm
depth	75 mm
required spacing	
• for grounded parts at 400 V	00
— downwards	20 mm

	00				
— 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				
 for grounded parts at 500 V 					
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
• for live parts at 500 V	•				
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
 for grounded parts at 690 V 					
— downwards	20 mm				
— upwards	20 mm				
— backwards	0 mm				
— at the side	9 mm				
— forwards	0 mm				
• for live parts at 690 V					
- downwards	20 mm				
	20 mm				
— upwards					
— 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	Top and bottom				
circuit					
type of connectable conductor cross-sections					
for main contacts					
— solid or stranded	$2x (0 = 1 = mm^2) 2x (0 = 2 = mm^2) 2x (1 = 4 mm^2)$				
	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x (1 4 mm ²)				
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
 — solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
tightening torque					
 for main contacts with screw-type terminals 	0.8 1.2 N·m				
 for auxiliary contacts with screw-type terminals 	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					
 with high demand rate according to SN 31920 	5 000				
proportion of dangerous failures					
 with low demand rate according to SN 31920 	50 %				
 with high demand rate according to SN 31920 	50 %				
failure rate [FIT]					
with low demand rate according to SN 31920	50 FIT				
protection class IP on the front according to IEC	IP20				
60529					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
	Rocker switch				
display version for switching status	Rocker switch				
display version for switching status Certificates/ approvals					
display version for switching status	Rocker switch For use in hazardous locations				
display version for switching status Certificates/ approvals					
display version for switching status Certificates/ approvals					
display version for switching status Certificates/ approvals General Product Approval					
display version for switching status Certificates/ approvals General Product Approval					

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Declaration of Conform	mity	Test Certificates		Marine / Shipping	
UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS
Marine / Shipping					other
Lloyd's Register	PRS	RINA	KMRS RMRS	DNV-GL	<u>Confirmation</u>
other		Railway			
<u>Miscellaneous</u>		Special Test Certific- ate			

Further information

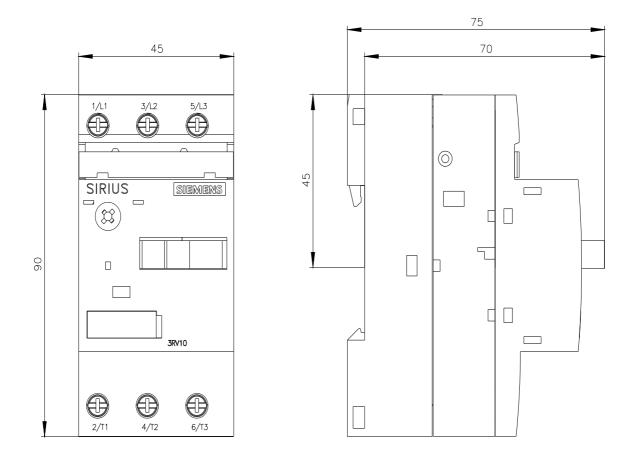
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an ÉAC 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=3RV1011-0JA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0JA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0JA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

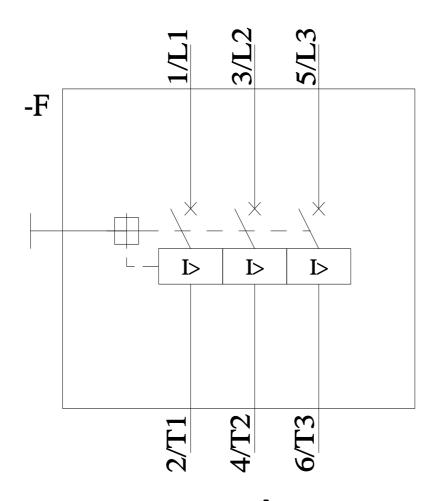
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0JA10&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0JA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0JA10&objecttype=14&gridview=view1





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