## 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

4772 4773	
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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	
<ul> <li>rated value</li> </ul>	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	1 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	1 A

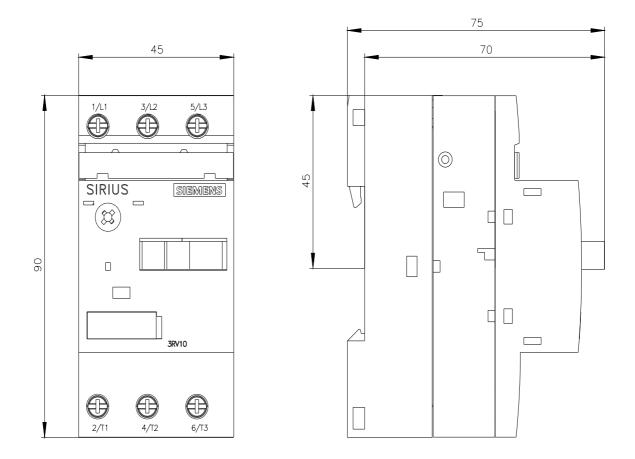
• at AC-3e at 400 V rated value	1 A
operating power	
● at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
operating frequency	
• 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	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
-	
design of the overload release maximum short-circuit current breaking capacity (Icu)	thermal
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
<ul> <li>at 400 V rated value</li> </ul>	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	1 A
• at 600 V rated value	1 A
yielded mechanical performance [hp]	
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 575/600 V rated value	0.5 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
• at 400 V	gL/gG 10 A
• at 500 V	gL/gG 10 A
• at 690 V	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
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

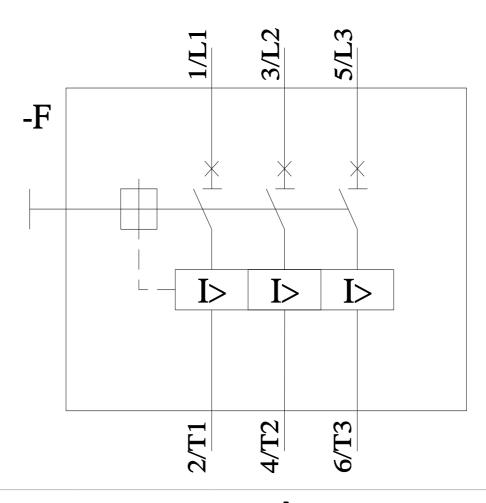
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
<ul> <li>for grounded parts at 500 V</li> </ul>				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
• for live parts at 500 V				
— downwards	20 mm			
— upwards	20 mm			
— at the side	20 mm			
	3 11111			
for grounded parts at 690 V	00			
— 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			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 mm			
— forwards	0 mm			
onnections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	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				
for main contacts with screw-type terminals	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			
•	FOZIUTIV SIZE Z			
design of the thread of the connection screw	110			
for main contacts	M3			
afety related data				
B10 value				
with high demand rate according to SN 31920	5 000			
proportion of dangerous failures				
	50 %			
<ul> <li>with low demand rate according to SN 31920</li> </ul>				
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	50 %			
• with high demand rate according to SN 31920	50 %			
• with high demand rate according to SN 31920	50 % 50 FIT			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920				
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529	50 FIT			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	50 FIT IP20			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	50 FIT IP20 finger-safe, for vertical contact from the front			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status	50 FIT IP20 finger-safe, for vertical contact from the front			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status ertificates/ approvals	50 FIT IP20 finger-safe, for vertical contact from the front Rocker switch			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status ertificates/ approvals	50 FIT IP20 finger-safe, for vertical contact from the front Rocker switch			
with high demand rate according to SN 31920 failure rate [FIT]     with low demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status ertificates/ approvals General Product Approval	50 FIT IP20 finger-safe, for vertical contact from the front Rocker switch			

Declaration of Conformit	у	Test Certificates		Marine / Shipping			
UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		
Marine / Shipping					other		
Lloyd's Register uis	PRS	RINA	KMRS	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 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 ord https://mall.industry.siemer Cax online generator http://support.automation.s Service&Support (Manua https://support.industry.siem	ering system) hs.com/mall/en/en/C iemens.com/WW/C/ Is, Certificates, Cha mens.com/cs/ww/en	/ps/3RV1011-0JA10	en&mlfb=3RV1011-0JA10				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0JA10⟨=en</u> Characteristics_life_life_life_life_life_life_life_life							
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0JA10/char							

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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