SIEMENS

Data sheet

3RV1011-0FA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 A Screw terminal Standard switching capacity

472 473	
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	0.35 0.5 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	0.5 A
operational current	

 at AC-3 at 400 V rated value 	0.5 A
 at AC-3e at 400 V rated value 	0.5 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.12 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 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
	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 (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
 at 690 V rated value 	100 kA
response value current of instantaneous short-circuit trip unit	6.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	0.5 A
 at 600 V rated value 	0.5 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	nugnodo
protection of the main circuit	
• at 240 V	none required
• at 400 V	None required
• at 500 V	None required
● at 690 V	gL/gG 4 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	
 for grounded parts at 400 V 	
 Hor grounded parts at 400 V — downwards 	20 mm
— upwards	20 mm
— at the side	9 mm
 for live parts at 400 V 	
- 101 IIVE Parts at 400 V	

	∞ FHI (€x)				
General Product Approval	For use in hazard- ous locations				
Certificates/ approvals					
display version for switching status	Rocker switch				
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front				
 with low demand rate according to SN 31920 	50 FIT				
failure rate [FIT]					
with high demand rate according to SN 31920	50 %				
with low demand rate according to SN 31920	50 %				
proportion of dangerous failures					
with high demand rate according to SN 31920	5 000				
B10 value					
• for main contacts Safety related data					
 design of the thread of the connection screw for main contacts 	M3				
size of the screwdriver tip	Pozidriv size 2				
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m				
 for main contacts with screw-type terminals 	0.8 1.2 N·m				
tightening torque					
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
for auxiliary contacts					
type of connectable conductor cross-sections	2× (v.v 1.0 mm), 2× (0.70 2.0 mm)				
 — solid of stranded — finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)				
solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)				
type of connectable conductor cross-sections • for main contacts					
circuit					
arrangement of electrical connectors for main current	Top and bottom				
for main current circuit	screw-type terminals				
type of electrical connection					
Connections/ Terminals					
— forwards	0 mm				
— at the side	9 mm				
— backwards	0 mm				
— upwards	20 mm				
- downwards	20 mm				
 for live parts at 690 V 	0 mm				
— at the side — forwards	9 mm				
— backwards	0 mm				
— upwards	20 mm				
— downwards	20 mm				
 for grounded parts at 690 V 					
— at the side	9 mm				
— upwards	20 mm				
— downwards	20 mm				
• for live parts at 500 V	•				
— at the side	20 mm 9 mm				
— upwards	20 mm				
 for grounded parts at 500 V — downwards 	20 mm				
— at the side	9 mm				
— upwards	20 mm				
— downwards	20 mm				

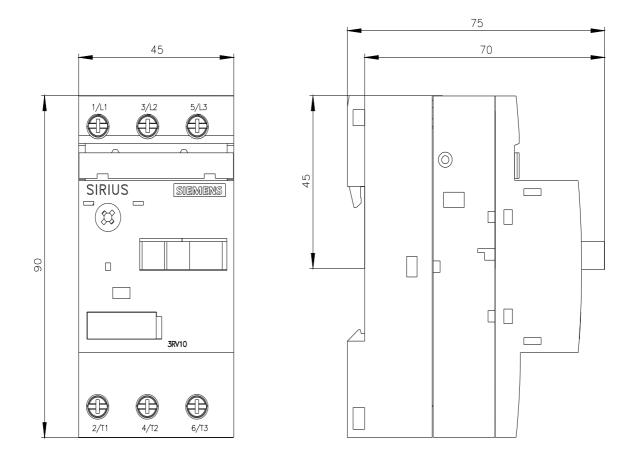
Subject to change without notice © Copyright Siemens

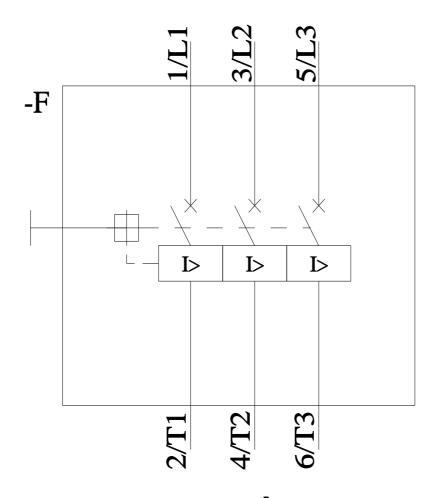
For use in hazard- ous locations	Declaration of Conformity		Test Certificates		Marine / Shipping		
IECEx	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping							
B U R E A U VERITAS	Llovds Kegister uks	PRS	RINA	KMRS	DNV-GL		
other			Railway				
<u>Confirmation</u>	<u>Miscellaneous</u>	UDE VDE	Special Test Certific- ate				
Further information 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=3RV1011-0FA10							
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0FA10							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA10							
Image database (pro	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0FA10⟨=en						

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA10/char

 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0FA10&objecttype=14&gridview=view1





11/21/2022 🖸