## SIEMENS

## Data sheet

## 3RV1011-1EA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.8...4 A N release 52 A Screw terminal Standard switching capacity

SIRIUS
Circuit breaker
For motor protection
3RV1
S00
S00
Yes
7.25 W
2.4 W
690 V
6 kV
100 000
100 000
100 000
Q
01/01/2013
Lead - 7439-92-1
2 000 m
-20 +60 °C
-50 +80 °C
-50 +80 °C
10 95 %
10 95 %
10 95 % 3
3
3
3 2.8 4 A
3 2.8 4 A 20 690 V
3 2.8 4 A 20 690 V 690 V
3 2.8 4 A 20 690 V 690 V 690 V
3 2.8 4 A 20 690 V 690 V 690 V 50 60 Hz
3 2.8 4 A 20 690 V 690 V 690 V 50 60 Hz

operating power	
• at AC-3	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	
— at 230 V rated value	0.8 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	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 (lcu)	
• at AC at 240 V rated value	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	3 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	2 kA
operating short-circuit current breaking capacity (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	3 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	52 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4 A
• at 600 V rated value	4 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.13 hp
— at 230 V rated value	0.33 hp
• for 3-phase AC motor	
— at 200/208 V rated value	0.8 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	2 hp
— at 575/600 V rated value	3 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 240 V	gL/gG 40 A
• at 500 V	gL/gG 35 A
• at 500 V	gL/gG 35 A gL/gG 35 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
<ul> <li>for live parts at 400 V</li> </ul>	
— 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	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
• for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— upwards — backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	0 mm
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)
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
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	
<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	
	Yes
product function suitable for safety function	Yes
suitability for use	
suitability for use <ul> <li>safety-related switching on</li> </ul>	No
<ul><li>suitability for use</li><li>safety-related switching on</li><li>safety-related switching OFF</li></ul>	No Yes
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> service life maximum	No Yes 10 a
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <li>service life maximum test wear-related service life necessary</li>	No Yes
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <li>service life maximum <ul> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> </ul> </li>	No Yes 10 a Yes
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <li>service life maximum <ul> <li>test wear-related service life necessary</li> </ul> </li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> </ul> </li>	No Yes 10 a Yes 40 %
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <li>service life maximum <ul> <li>test wear-related service life necessary</li> </ul> </li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li>	No Yes 10 a Yes 40 % 50 %
suitability for use         • safety-related switching on         • safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920	No Yes 10 a Yes 40 % 50 % 5 000
suitability for use <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <li>service life maximum <ul> <li>test wear-related service life necessary</li> </ul> </li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li>	No Yes 10 a Yes 40 % 50 %

device type according to ISO 13849-1			3			
overdimensioning acc	ording to ISO 13849-2 n	ecessary	Yes			
IEC 61508						
safety device type acc	ording to IEC 61508-2	1	Гуре А			
Electrical Safety						
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						
display version for switc	hing status	F	Rocker switch			
Approvals Certificates	-					
General Product Appr	oval					
eeneral reduct topp	ovu					
		<b>Confirmation</b>		$\sim$	KC	
CE	UN		( <b>m</b> )	(Uı)		
	UK CA					
EG-Konf.			ccc	UL		
General Product Ap- proval	For use in hazardous	locations	Test Certificates		Marine / Shipping	
provu						
			Special Test Certific-	Type Test Certific-	Serve and	
FAL	IECEx	(Fx)	ate	ates/Test Report	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ENL	•				A success	
	IECEx	ATEX			ABS	
Marine / Shipping						
AUTEN	0.0			-		
ALL A	ĴΔ	Lloyds	(33)			
	DNV	Kegister			<u>v</u>	
BUREAU	DNV	LRS	PRS	RINA	RMRS	
VERITAS						
other			Railway	Environment		
		_				
<b>Confirmation</b>	Miscellaneous	$\sim$	Special Test Certific-	Environmental Con- firmations		
		<pre> </pre>	ate	innations		
		VDE				

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=3RV1011-1EA10 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1EA10

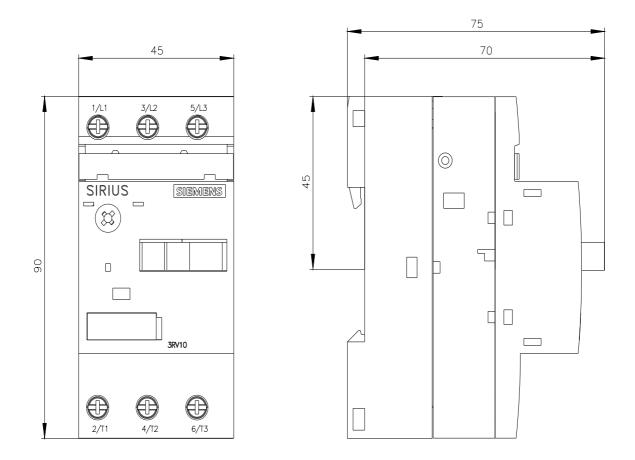
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

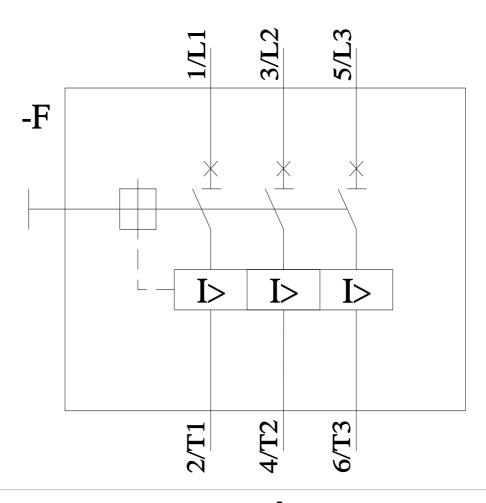
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1EA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1EA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1EA10&objecttype=14&gridview=view1





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