## SIEMENS

## Data sheet

## 3RV1011-1FA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 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 -50 +80 °C
-50 +80 °C
-50 +80 °C
-50 +80 °C 10 95 %
-50 +80 °C 10 95 % 3
-50 +80 °C 10 95 % 3
-50 +80 °C 10 95 % 3 3.5 5 A
-50 +80 °C 10 95 % 3 3.5 5 A 20 690 V
-50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V
-50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V
-50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 690 V 50 60 Hz
-50 +80 °C 10 95 % 3 3.5 5 A 20 690 V 690 V 690 V 690 V 50 60 Hz

operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	13 1/11
	2
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	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
<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	
• at 240 V rated value	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	65 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	5 A
at 600 V rated value	5 A
yielded mechanical performance [hp]	
for single-phase AC motor	
-	0.17 hz
— at 110/120 V rated value — at 230 V rated value	0.17 hp
	0.5 hp
• for 3-phase AC motor	
- at 200/208 V rated value	1 hp
— at 220/230 V rated value	1 hp
— at 460/480 V rated value	3 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 400 V	gL/gG 50 A
• at 500 V	gL/gG 35 A
• at 690 V	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		
— 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 according to ISO 13849-2 necessary		Yes				
IEC 61508						
safety device type according to IEC 61508-2		Туре 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		Rocker switch			
Approvals Certificates						
General Product Appr	oval					
CE EG-Konf.	UK CA		<u>Confirmation</u>		KC	
General Product Approval	For use in hazardous	locations	Test Certificates		Marine / Shipping	
EHC	IECEx	K ATEX	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RARS RARS	
other			Railway	Environment		
<u>Miscellaneous</u>	<u>Confirmation</u>		Special Test Certific- ate	Environmental Con- firmations		

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=3RV1011-1FA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1FA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA10

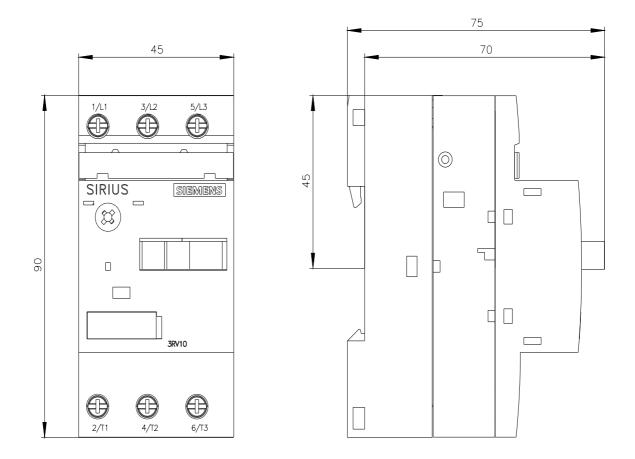
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

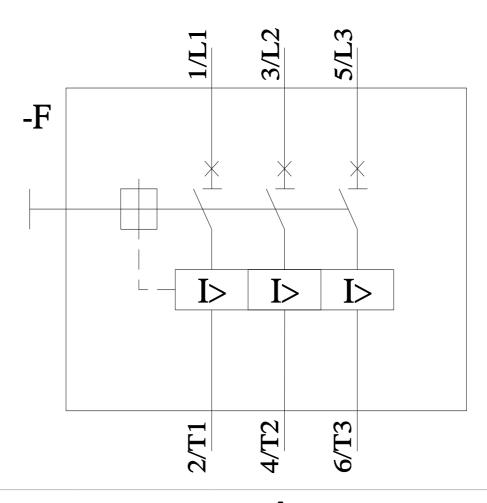
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1FA10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1FA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1FA10&objecttype=14&gridview=view1





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