SIEMENS

Data sheet 3RV1011-0BA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.14...0.2 A N-release 2.6 A Screw terminal Standard switching capacity

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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (switching 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 acc. 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
temperature compensation	-20 +60 °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	0.14 0.2 A

operating voltage	
rated value	690 V
rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.2 A
operational current at AC-3 at 400 V rated value	0.2 A
operating power at AC-3	
 at 230 V rated value 	0 kW
 at 400 V rated value 	0.1 kW
 at 500 V rated value 	0.1 kW
 at 690 V rated value 	0.1 kW
operating frequency at AC-3 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	thermal
	ticilial
breaking capacity operating short-circuit current (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 at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	100 101
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
	2.6 A
response value current of instantaneous short-circuit trip unit	2.0 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	0.2 A
 at 600 V rated value 	0.2 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	.,
protection of the main circuit	
• at 240 V	none required
• at 400 V	None required
• at 500 V	None required
• at 690 V	None required
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
height	90 mm
width	45 mm
depth	75 mm
required spacing	
• for 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	

— 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	
— upwards	20 mm	
— backwards	0 mm	
— at the side	9 mm	
— forwards	0 mm	
Connections/ Terminals	O HIIII	
product component removable terminal for auxiliary	No	
and control circuit	INO	
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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4	mm²)
— finely stranded with core end processing	2x (0.5 1.5 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 2	
design of the thread of the connection screw		
for main contacts	M3	
Safety related data		
B10 value		
with high demand rate acc. to SN 31920	5 000	
proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	50 %	
with high demand rate acc. to SN 31920	50 %	
failure rate [FIT]		
with low demand rate acc. to SN 31920	50 FIT	
protection class IP on the front acc. to IEC 60529	IP20	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Rocker switch	
Certificates/ approvals		
General Product Approval		For use in hazard- ous locations



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



UK Declaration of Conformity



Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













Confirmation

other

other

Railway

Miscellaneous



Special Test Certificate

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=3RV1011-0BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0BA10

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

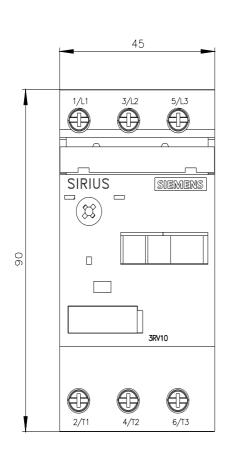
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0BA10&lang=en

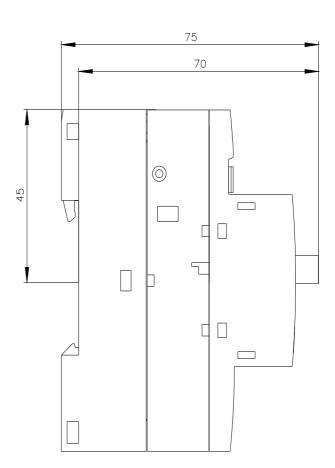
Characteristic: Tripping characteristics, I2t, Let-through current

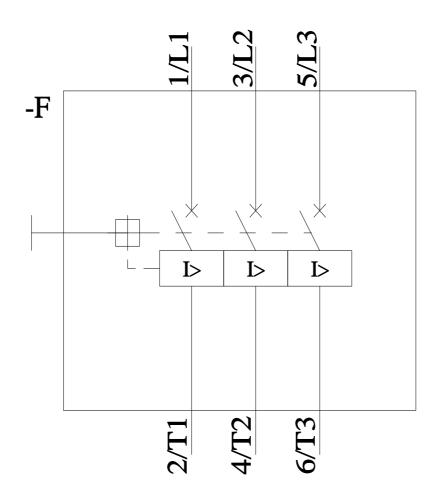
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0BA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0BA10&objecttype=14&gridview=view1







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