SIEMENS

Data sheet 3RV1011-0EA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.28...0.4 A N-release 5.2 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
Seneral 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Lead - 7439-92-1
Weight	0.23 kg
mbient 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 %
lain circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.28 0.4 A
type of voltage for main current circuit	AC
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	0.4 A

 at AC-3 at 400 V rated value 	0.4 A
at AC-3e at 400 V rated value	0.4 A
operating power	
• at AC-3	
— at 230 V rated value	0.06 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.12 kW
— at 690 V rated value	0.18 kW
• at AC-3e	
— at 230 V rated value	0.06 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.12 kW
— at 690 V rated value	0.18 kW
operating frequency	AE AIL
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
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
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 at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	5.2 A
UL/CSA ratings	3.2 A
full-load current (FLA) for 3-phase AC motor	0.4.4
• at 480 V rated value	0.4 A
at 600 V rated value	0.4 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	
•	none required
• 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 DIN 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

• for live parts all 400 V		
downwards	— at the side	9 mm
- upwards	•	
at the side	— downwards	20 mm
• for grounded patis at 500 V	— upwards	20 mm
Commands at the side at th	— at the side	9 mm
	 for grounded parts at 500 V 	
- at the side	— downwards	20 mm
• for live parts at 80 0V — downwards — upwards — at the side — upwards — upwards — upwards — upwards — backwards — upwards — to regrounded parts at 800 V — downwards — at the side — for wards — to live parts at 800 V — downwards — to live parts at 800 V — downwards — to live parts at 800 V — downwards — upwards — omm — omm — of live parts at 800 V — downwards — omm — backwards — omm — omm — one upwards — one upwards — omm — one upwards — omm — one upwards	— upwards	20 mm
downwards upwards upwards at the side of orgrounded parts at 600 V downwards pupwards pupwards pupwards pupwards pupwards pupwards pupwards at the side pupwards at the side forwards of five parts at 600 V downwards of five parts at 600 V downwards pupwards pupw	— at the side	9 mm
upwards	 for live parts at 500 V 	
■ for grounded parts at 690 V - downwards - upwards - backwards - forwards - forwards - forwards - forwards - forwards - forwards - own - downwards - forwards - own - downwards - pupwards - pupwards - pupwards - pupwards - pupwards - man be ackwards - man - the side - forwards - own - backwards - own - backwards - own - backwards - own - man - ownerds - own - ownerds - forwards - own - forwards - own - forwards - forwards - forwards - forwards - forwards - forwards - for main current circuit - for main contacts - solid or stranded - fine's stranded with core end processing - for awnificy contacts - solid or stranded - fine's stranded with core end processing - for awnificy contacts - solid or stranded - fine's stranded - for main contacts - solid or stranded - for main contacts - solid or stranded - fine's stranded - for main contacts with screw-type terminals - solid or stranded - for awnificy contacts - solid or stranded - fine's stranded - for main contacts with screw-type terminals - solid or stranded - for awnificy contacts - solid or stranded - fine's stran	— downwards	20 mm
• for grounded parts at 690 V	— upwards	20 mm
- downwards - upwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards	— at the side	9 mm
- upwards - backwards 0 mm 9 m	 for grounded parts at 690 V 	
- backwards - at the side - for wards • for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - on the side - howards - on the side - for main current tricuit - solid or stranded - finely stranded with core and processing - for auxiliary contacts - solid or stranded - finely stranded with core and processing - solid or stranded - finely stranded with core and processing - solid or stranded - finely stranded with core whype terminals - for auxiliary contacts - solid or stranded - for auxiliary contacts - for auxiliary contacts with screw-type terminals - for main contacts - solid or stranded - for main contacts - with screw-type terminals - for auxiliary contacts with screw-type terminals - for main contacts - for main current -	— downwards	20 mm
- at the side - forwards - forwar	— upwards	20 mm
- forwards • for live parts at 690 V - downwards - upwards - upwards - backwards - at the side - of main current circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - solid or stranded - solid or stranded - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts - solid or stranded - so	— backwards	0 mm
of rive parts at 690 V onwards outwards one parts o	— at the side	9 mm
of rive parts at 690 V onwards outwards one parts o		
- downwards 20 mm 20 mm 30 mm		
- upwards - backwards - at the side - forwards - omm - at the side - forwards - omm - forwards - omm - forwards - omm - for main current circuit - for main current circuit - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid	•	20 mm
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overdimensioning according to ISO 13849-2 necessary Yes		
	ISO 13849	
IFC 64500	ISO 13849 device type according to ISO 13849-1	
IEC 61508	ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	

safety device type according to IEC 61508-2	Type A
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 switching status	Rocker switch
Approvals Certificates	
General Product Approval	









<u>KC</u>



General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping

BIS CRS





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Railway Environment

Confirmation

Miscellaneous



Special Test Certificate Environmental Confirmations

Further information

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=3RV1011-0EA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1011-0EA10}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA10

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

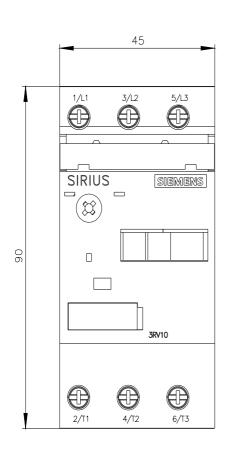
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0EA10&lang=en

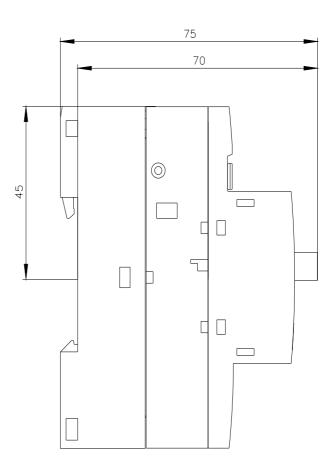
Characteristic: Tripping characteristics, I²t, Let-through current

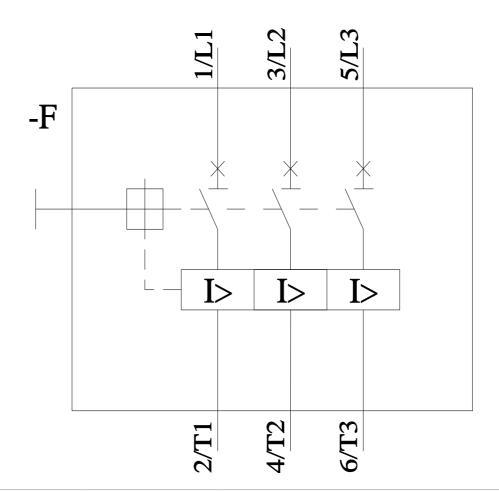
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0EA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0EA10&objecttype=14&gridview=view1







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