SIEMENS

Data sheet 3RV2011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity

product designation design of the product product type designation Size of the circuit-breaker Size of contactor can be combined company-specific product extension auxiliary switch o at AC in hot operating state For motor protection SRV2 For motor protection SRV2 Sou SRV2 Sou Sou Sou Sou Sou Sou Sou Sou Sou So		
product type designation General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current		
Size of the circuit-breaker Size of contactor can be combined company-specific Size of contactor can be cont		
size of the circuit-breaker \$00 size of contactor can be combined company-specific \$00, \$0 product extension auxiliary switch Yes power loss [W] for rated value of the current		
size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current		
product extension auxiliary switch power loss [W] for rated value of the current Yes		
power loss [W] for rated value of the current		
• at AC in hot operating state		
♥ at Ao in not operating state		
• at AC in hot operating state per pole 3.1 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		
shock resistance acc. to IEC 60068-2-27 25g / 11 ms		
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 Ex II (2) GD 2014/34/EU		
certificate of suitability according to ATEX directive 2014/34/EU DMT 02 ATEX F 001		
reference code acc. to IEC 81346-2		
Substance Prohibitance (Date) 01.10.2009		
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 7 10 A		

current-dependent overload release	
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	10 A
operational current at AC-3 at 400 V rated value	10 A
operating power at AC-3	
• at 230 V rated value	2.2 kW
• at 400 V rated value	4 kW
at 500 V rated value	5.5 kW
at 690 V rated value	7.5 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
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
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 	42 kA
 at 690 V rated value 	4 kA
breaking capacity maximum short-circuit current (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 	42 kA
at AC at 690 V rated value	6 kA
response value current of instantaneous short-circuit trip	130 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	10 A
at 600 V rated value	10 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	10 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 400 V	gL/gG 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 40 A
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	97 mm
width	45 mm
depth	97 mm
required spacing	
for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	22
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 500 V— downwards	30 mm
— downwards — upwards	30 mm
— at the side	9 mm
— at the side • for live parts at 500 V	J 111111
for live parts at 500 v downwards	30 mm
— upwards	30 mm
— at the side	9 mm
for grounded parts at 690 V	·
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	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 (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (18 14), 2x 12
tightening torque	
for main contacts with screw-type terminals	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
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	50.07
with low demand rate acc. to SN 31920	50 %
with high demand rate acc. to SN 31920	50 %
failure rate [FIT]	FOFIT
with low demand rate acc. to SN 31920 The low for proof text interval or coming life acc. to	50 FIT
T1 value for proof test interval or service life acc. to	10 y

IEC 61508 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 Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates







UK Declaration of Conformity

Type Test Certificates/Test Report

Special Test Certific-

Marine / Shipping













Marine / Shipping

other



Confirmation



Vibration and Shock

Railway

Confirmation

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=3RV2011-1JA10

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10

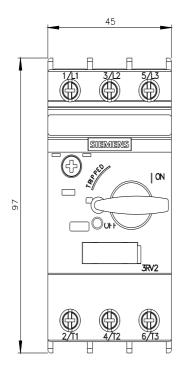
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

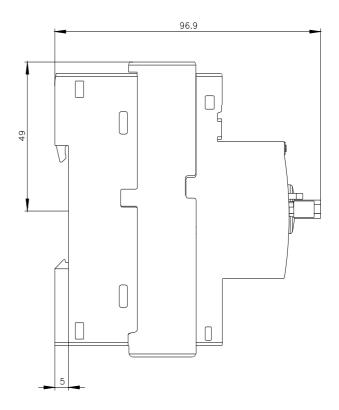
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1JA10&lang=en

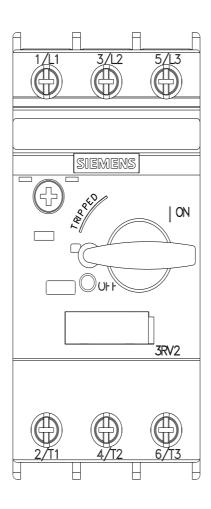
Characteristic: Tripping characteristics, I2t, Let-through current

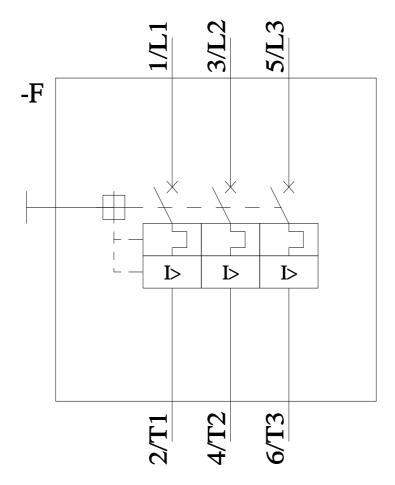
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA10&objecttype=14&gridview=view1









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