SIEMENS

Data sheet

3RV2011-0EA10



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

2/11 4/12 6/73	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
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
shock resistance according to IEC 60068-2-27	25g / 11 ms
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)	10/01/2009
SVHC substance name	Lead - 7439-92-1
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
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	0.28 0.4 A
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
operational current	
 at AC-3 at 400 V rated value 	0.4 A

• at AC-3e at 400 V rated value	0.4 A			
operating power	V.T.A.			
• at AC-3				
• at AC-3 — at 230 V rated value	0.1 kW			
— at 200 V rated value				
	0.09 kW			
— at 500 V rated value	0.1 kW			
— at 690 V rated value	0.2 kW			
• at AC-3e	A 4114			
— at 230 V rated value	0.1 kW			
— at 400 V rated value	0.09 kW			
— at 500 V rated value	0.1 kW			
— at 690 V rated value	0.2 kW			
operating frequency				
• at AC-3 maximum	15 1/h			
• at AC-3e 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			
maximum short-circuit current breaking capacity (lcu)				
• 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	100 kA			
response value current of instantaneous short-circuit trip unit	5.2 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• 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			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	97 mm			
width	45 mm			
depth	97 mm			
required spacing				
with side-by-side mounting at the side	0 mm			
• for grounded parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for live parts at 400 V				
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
• for grounded parts at 500 V				

— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 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					
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)				
 for 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 size 2				
design of the thread of the connection screw					
for main contacts	M3				
Safety related data					
proportion of dangerous failures					
	F0 %				
with low demand rate according to SN 31920	50 %				
with high demand rate according to SN 31920	50 %				
B10 value with high demand rate according to SN 31920	5 000				
failure rate [FIT] with low demand rate according to SN 31920	50 FIT				
IEC 61508					
T1 value					
 for proof test interval or service life according to IEC 61508 	10 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 version for switching status	Handle				
Approvals Certificates					
General Product Approval					
	Confirmation KC				
General Product Approval For use in hazardous locations	Test Certificates Marine / Shipping				

EHC	K ATEX	IECEx	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Llovd's Register us	PRS	RINA	<u>Miscellaneous</u>		
other		Railway	Environment				
<u>Confirmation</u>		<u>Confirmation</u>	EPD	Environmental Con- firmations			
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=3RV2011-0EA10							

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA10

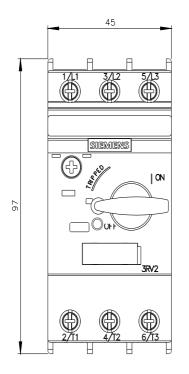
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0EA10&lang=en

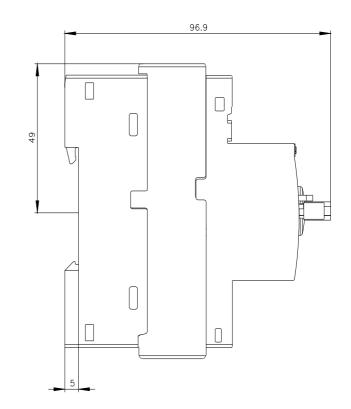
Characteristic: Tripping characteristics, I²t, Let-through current

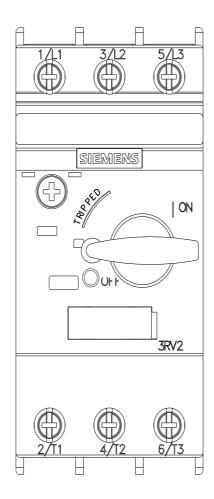
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0EA10&objecttype=14&gridview=view1

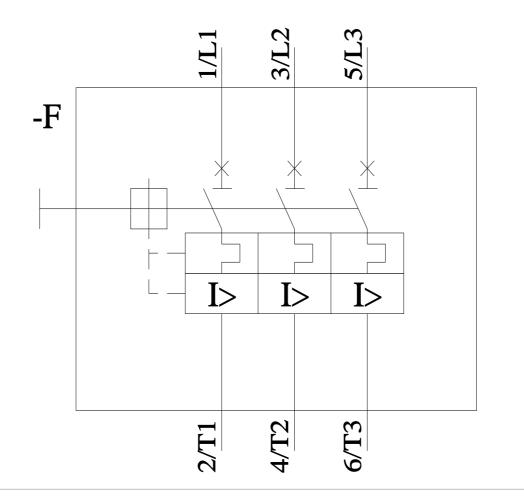






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