SIEMENS

Data sheet

3RV2311-0AC10



Circuit breaker size S00 for starter combination Rated current 0.16 A N-release 2.1 A screw terminal Standard switching capacity

4/12 8/73	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
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
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	0.16 A
operational current	
• at AC-3 at 400 V rated value	0.16 A
• at AC-3e at 400 V rated value	0.16 A
operating power	

 at AC3
 e al AC-3e - al 230 V rated value 0 KW - at 500 V rated value 0.1 KW - at 500 V rated value 0.1 kW - at 600 V rated value 0.1 kW - at AC-3 maximum 15 1/h • at AC-3 maximum 16 1/h • at AC-3 maximum shore of NO contacts for auxiliary contacts 0 Protective and monitoring functions • ground fault detection No • plase failure detection No • plase failure detection No • at AC at 240 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 500 V rated value 100 kA • at 600 V rated value 0.16 A <
- at 230 V rated value 0 KW - at 400 V rated value 0 KW - at 600 V rated value 0 1 KW - at 600 V rated value 0 1 KW operating frequency - - - at AC-3 maximum 15 1h - at AC-3 maximum 15 1h - at AC-3 maximum 15 1h - at AC-3 maximum 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - number of NC contacts for auxiliary contacts 0 - at AC at 240 V rated value 100 KA - at AC at 240 V rated value 100 KA - at 240 V rated value 100 KA - a
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• at AC at 690 V rated value 100 kA operating short-circuit current breaking capacity (ics) at AC 100 kA • at 240 V rated value 100 kA • at 500 V rated value 100 kA • at 600 V rated value 100 kA • at 630 V rated value 100 kA • at 640 V rated value 100 kA • at 640 V rated value 100 kA • at 640 V rated value 100 kA response value current of instantaneous short-circuit trip unit 2.1 A UUCSA ratings
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- downwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 400 V 400 V
 at the side for live parts at 400 V
• 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	U mm			
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 mm ²), 2x (0.75 2.5 mm ²)			
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				
product function suitable for safety function	Yes			
suitability for use				
 safety-related switching on 	No			
 safety-related switching OFF 	Yes			
service life maximum	10 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
 with low demand rate according to SN 31920 	40 %			
 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	50 FIT			
31920				
ISO 13849				
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			
T1 value				
 for proof test interval or service life according to IEC 	10 a			
61508				
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	Handle			
Approvals Certificates				
General Product Approval				

CE EG-Konf.	UK CA	<u>Confirmation</u>	CCC		<u>KC</u>	
General Product Ap- proval	Test Certificates		Marine / Shipping			
EAC	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS		
Marine / Shipping			other			
Lloyd's Register	PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>		
Railway		Environment				
<u>Confirmation</u>	Special Test Certific- ate	EPD	Siemens EcoTech	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)						

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2311-0AC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-0AC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0AC10

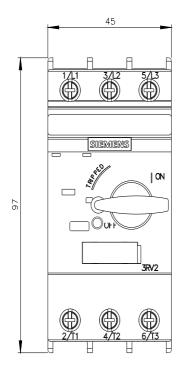
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

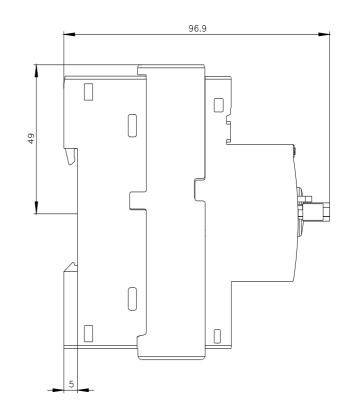
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0AC10&lang=en

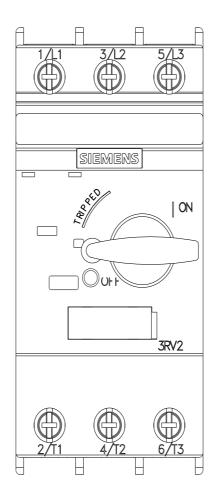
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0AC10/char

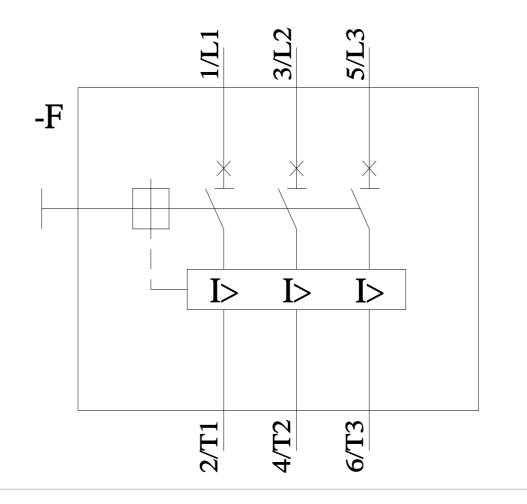
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0AC10&objecttype=14&gridview=view1







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