SIEMENS

Data sheet

3RV2111-0AA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 0.11...0.16 A N-release 2.1 A screw terminal Standard switching capacity

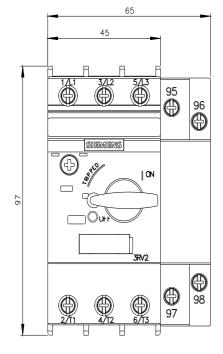
172.5				
product brand name	SIRIUS			
product designation	Circuit breaker			
design of the product	For motor protection with overload relay function			
product type designation	3RV2			
General technical data				
size of the circuit-breaker	S00			
size of contactor can be combined company-specific	S00, 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	0.11 0.16 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			

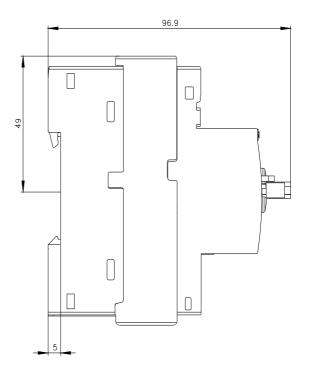
operational current rated value	0.16 A				
operational current					
 at AC-3 at 400 V rated value 	0.16 A				
• at AC-3e at 400 V rated value	0.16 A				
operating power					
• at AC-3					
— at 230 V rated value	0 kW				
— at 400 V rated value	0.04 kW				
— at 500 V rated value	0.1 kW				
— at 690 V rated value	0.1 kW				
● at AC-3e					
— at 230 V rated value	0 kW				
— at 400 V rated value	0.04 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				
at AC-3e maximum	15 1/h				
Auxiliary circuit					
design of the auxiliary switch	laterally				
number of NC contacts for auxiliary contacts	0				
number of NO contacts for auxiliary contacts	0				
number of CO contacts for auxiliary contacts	0				
operational current of auxiliary contacts at AC-15					
• at 24 V	1.5 A				
• at 230 V	1.5 A				
	1.5 A				
operational current of auxiliary contacts at DC-13 • at 24 V	1 A				
	1A				
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	100 kA				
response value current of instantaneous short-circuit trip unit	2.1 A				
UL/CSA ratings					
full-load current (FLA) for 3-phase AC motor					
• at 480 V rated value	0.16 A				
• at 600 V rated value	0.16 A				
contact rating of auxiliary contacts according to UL					
	C600 / R300				
Short-circuit protection	C600 / R300				
Short-circuit protection product function short circuit protection	C600 / R300 Yes				
product function short circuit protection	Yes				
product function short circuit protection design of the short-circuit trip	Yes				
product function short circuit protection design of the short-circuit trip design of the fuse link	Yes magnetic				
product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	Yes magnetic				
product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	Yes magnetic fuse gL/gG: 6 A, quick: 10 A any				
product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	Yes magnetic fuse gL/gG: 6 A, quick: 10 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	Yes magnetic fuse gL/gG: 6 A, quick: 10 A any				

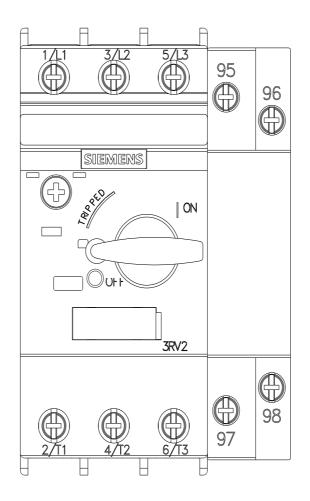
donth	97 mm			
depth required spacing				
with side-by-side mounting at the side	0 mm			
 for grounded parts at 400 V 	U min			
- downwards	30 mm			
— upwards	30 mm			
— at the side	30 mm 9 mm			
	9 11111			
• for live parts at 400 V	20 mm			
— downwards	30 mm			
— upwards	30 mm			
— at the side	9 mm			
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			
 for auxiliary and control 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			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded				
finally atransfed with same and surgers is a	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing for AWG cables for auxiliary contacts 				
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
for AWG cables for auxiliary contacts	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
for AWG cables for auxiliary contacts tightening torque	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts e of the auxiliary and control contacts Safety related data	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 M3			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts of the auxiliary and control contacts Safety related data product function suitable for safety function	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 M3			
for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts e of the auxiliary and control contacts Safety related data product function suitable for safety function suitability for use	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 M3			

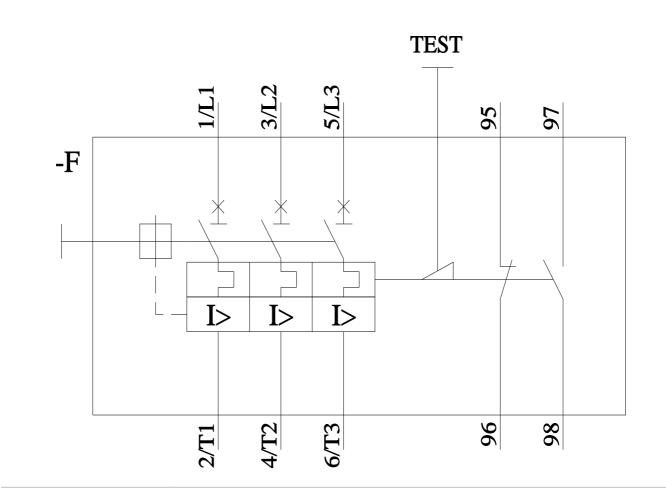
test wear-related service life necessary	Yes					
proportion of dangerous failures						
 with low demand rate according to SN 31920 	40 %	40 %				
 with high demand rate according to SN 31920 	50 %	50 %				
B10 value with high demand rate according to SN 31920	5 000					
failure rate [FIT] with low demand rate according to SN 31920	50 FIT					
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 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	e, for vertical co	ntact from the front			
isplay						
display version for switching status	Handle					
pprovals Certificates						
General Product Approval						
		<u>Confirmation</u>		KC		
General Product Approval Test Certificates		arine / Shippin	g	_		
	<u>'est Certific-</u> ate	ABS	B UREAU VERITAS			
Marine / Shipping	ot	her				
LIRS PRS R	INA	<u>Confirmation</u>	<u>Miscellaneous</u>			
Railway Environn	nent					
Special Test Certific- Confirmation ate		iemens coTech	Environmental Con- firmations			
urther information						
https://support.industry.siemens.com/cs/ww/en/view/1098138 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	t?mlfb=3RV2111_0)AA10				
Cax online generator http://support.automation.siemens.com/WW/CAXorder/defaul						
	It.aspx?lang=en&n	nlfb=3RV2111-0	<u>)AA10</u>			
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-	FAQs,)	nlfb=3RV2111-(<u>DAA10</u>			

https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0AA10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-0AA10&objecttype=14&gridview=view1









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