SIEMENS

Data sheet

3RV2111-0KA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 0.9...1.25 A N-release 16 A screw terminal Standard switching capacity

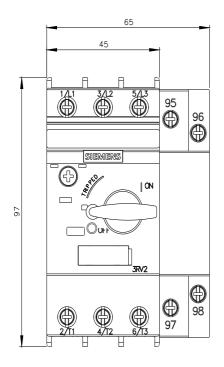
0.449	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection with overload relay function
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	7.25 W
 at AC in hot operating state per pole 	2.4 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	Blei - 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	0.9 1.25 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	1.25 A
operational current	
• at AC-3 at 400 V rated value	1.25 A

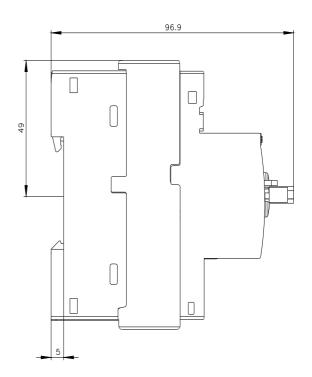
• at AC-3e at 400 V rated value	1.25 A
operating power	1.20 A
• at AC-3	
- at 230 V rated value	0.2 kW
— at 200 V rated value	0.37 kW
	0.4 kW
- at 500 V rated value	
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 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
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
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	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	1.25 A
at 480 V rated value	1.25 A
• at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	4 ha
- at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.5 hp
contact rating of auxiliary contacts according to UL	C600 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A, quick: 10 A
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 500 V	gL/gG 16 A
	gL/gG 16 A
• at 690 V Installation/ mounting/ dimensions	

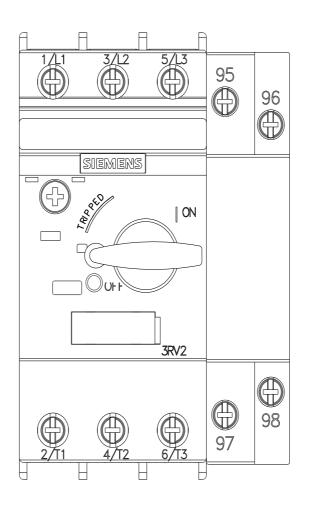
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	65 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	3 1111
	00
— 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
onnections/ 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	Top and bottom
circuit	
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	2x (0.5 1.5 mm²), 2x (0.75 2.5 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 auxiliary contacts 	2x (20 16), 2x (18 14)
tightening torque	0.9. 1.2 Num
	0.8 1.2 N·m
• for main contacts with screw-type terminals	
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
for auxiliary contacts with screw-type terminals design of screwdriver shaft	Diameter 5 to 6 mm
for auxiliary contacts with screw-type terminals	
for auxiliary contacts with screw-type terminals design of screwdriver shaft	Diameter 5 to 6 mm
for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	Diameter 5 to 6 mm
for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	Diameter 5 to 6 mm Pozidriv size 2

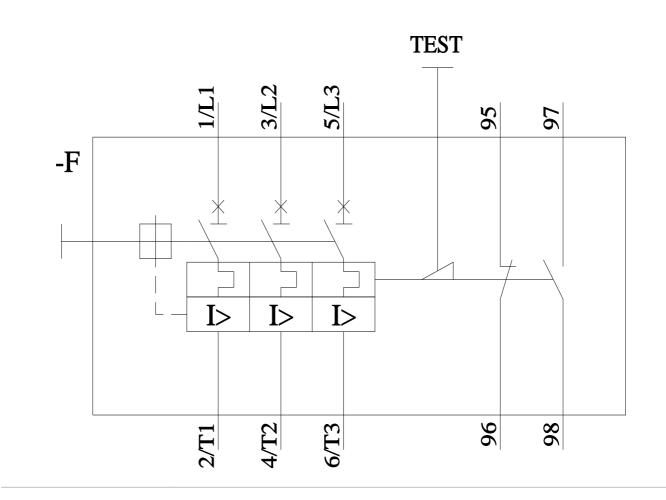
with high demand	rate according to SN 319 1 rate according to SN 319					
	ow demand rate accordi		г			
	emand rate according to	SN 31920 5 000				
EC 61508	J					
T1 value for proof test IEC 61508	interval or service life a	according to 10 a				
Electrical Safety						
protection class IP on	the front according to II	EC 60529 IP20				
touch protection on the front according to IEC 60529		finger	finger-safe, for vertical contact from the front			
display version for switc	hing status	Handl	e			
oprovals Certificates						
General Product Appr	oval					
CE EG-Konf.	UK CA		Confirmation		EHC	
Test Certificates		Marine / Shipping				
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	BUREAU VERITAS		Lloyds Register uis	
Marine / Shipping		other			Railway	
PRS	RINA	<u>Miscellaneous</u>	<u>Confirmation</u>		<u>Confirmation</u>	
Environment EPD Typ II/III (with life cylce assessment)						
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Further characteristics (e.g. electrical endurance, switching frequency) <u>http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-0KA10&objecttype=14&gridview=view1</u>









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