SIEMENS

Data sheet

3RV2111-0GA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 0.45...0.63 A N-release 8.2 A screw terminal Standard switching capacity

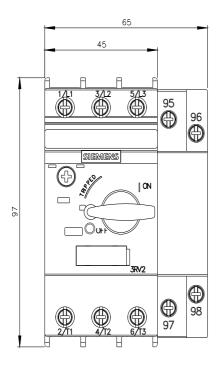
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection with overload relay function		
product type designation	3RV2		
General technical data	51172		
	000		
size of the circuit-breaker	S00		
size of contactor can be combined company-specific	S00, S0		
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 (switching cycles)			
 of the main contacts typical 	100 000		
 of auxiliary contacts typical 	100 000		
electrical endurance (switching cycles) typical	100 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
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		
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	0.45 0.63 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	0.63 A		
operational current			
 at AC-3 at 400 V rated value 	0.63 A		

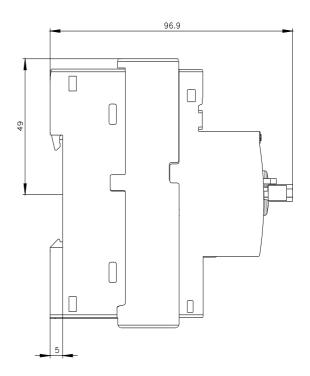
• at AC-3e at 400 V rated value	0.63 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	0.0 KW
- at 230 V rated value	0.1 kW
— at 200 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	0.5 KW
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
	laterally.
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	4.4
	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
 breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 	100 kA
	100 kA
 at AC at 400 V rated value at AC at 500 V rated value 	100 kA 100 kA
	100 kA
tat AC at 690 V rated value breaking capacity operating short-circuit current (Ics)	100 KA
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	8.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.63 A
• at 600 V rated value	0.63 A
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 690 V	gL/gG 6 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	65 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 				
— 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)			
at AWG cables for main contacts	2x (0.0 m 1.0 mm), 2x (0.10 m 2.0 mm)			
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)			
at AWG cables for auxiliary contacts	2x (0.0 1.0 mm), 2x (0.1 0 2.0 mm) 2x (20 16), 2x (18 14)			
tightening torque				
for main contacts with screw-type terminals	0.8 1.2 N⋅m			
 for auxiliary 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			
 of the auxiliary and control contacts 	M3			
-				
Safety related data				
B10 value				

with high demand rate according to SN 31920		5 000			
proportion of dang	jerous failures				
• with low demand rate according to SN 31920		N 31920	50 %		
 with high demand rate according to SN 31920 		SN 31920	50 %		
failure rate [FIT]					
	and rate according to SI		50 FIT		
T1 value for proof test interval or service life according to IEC 61508		e according to	10 y		
protection class IP on the front according to IEC 60529		ng to IEC	IP20		
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
display version for switching status		Handle			
ertificates/ approv	als				
General Product A	Approval				
(Stepser	<u>Confirmation</u>			KC	EHC
Declaration of Co	nformity	Test Certificat	es	Marine / Shipping	
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-0GA10&objecttype=14&gridview=view1





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