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

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 (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	0.9 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					

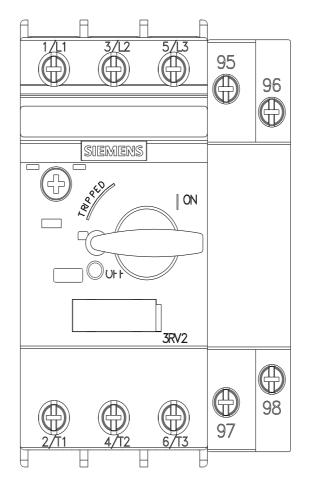
 at AC-3e at 400 V rated value 	1.25 A			
operating power				
• at AC-3				
— at 230 V rated value	0.2 kW			
— at 400 V rated value	0.37 kW			
— at 500 V rated value	0.4 kW			
— at 690 V rated value	0.8 kW			
• at AC-3e	0.0 KW			
- at 230 V rated value	0.2 kW			
— at 400 V rated value	0.37 kW			
— at 500 V rated value	0.4 kW			
— at 690 V rated value	0.8 kW			
operating frequency	0.0 KW			
• at AC-3 maximum	15 1/h			
• at AC-3e maximum	15 1/h			
Auxiliary circuit				
	latarally			
design of the auxiliary switch number of NC contacts for auxiliary contacts	laterally 0			
number of NO contacts for auxiliary contacts	0			
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	U			
• 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			
breaking capacity maximum short-circuit current (Icu)	therman			
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			
breaking capacity operating short-circuit current (lcs)				
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				
• 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 				
— 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				

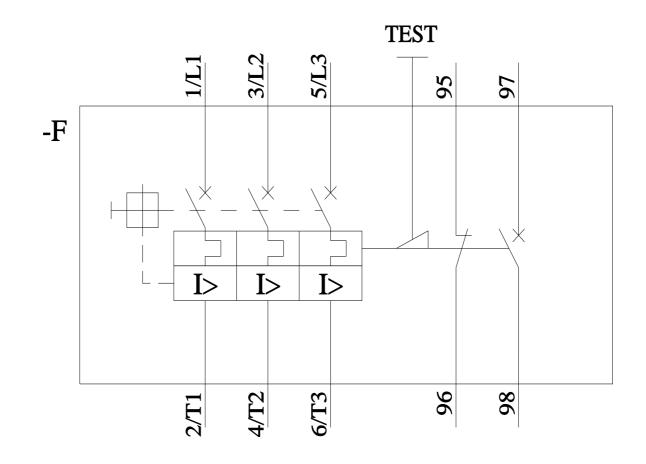
nucleotion of the main singuit					
protection of the main circuit					
• at 500 V	gL/gG 16 A				
• at 690 V	gL/gG 16 A				
Installation/ mounting/ dimensions					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
height	97 mm				
width	65 mm				
depth	97 mm				
required spacing					
for grounded parts at 400 V	20				
— downwards	30 mm 30 mm				
— upwards — at the side	9 mm				
 for live parts at 400 V 	91111				
 for five parts at 400 v downwards 	30 mm				
— upwards	30 mm				
— upwards — at the side	9 mm				
 for grounded parts at 500 V 					
 Ior 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 (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 mm²), 2x (0.75 2.5 mm²)				
at AWG cables for auxiliary contacts	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				

-	d of the connection scr	ew				
 for main contact 			M3			
-	and control contacts		M3			
Safety related data						
B10 value						
 with high demand rate according to SN 31920 		5 000				
proportion of dangerous failures						
 with low demand rate according to SN 31920 		50 %				
 with high demand rate according to SN 31920 		50 %				
failure rate [FIT]						
 with low demand rate according to SN 31920 			50 FIT			
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to		10 y			
protection class IP 60529	protection class IP on the front according to IEC		IP20			
touch protection or	the front according to	IEC 60529	finger	safe, for vertical conta	act from the front	
display version for sv			Handl			
Certificates/ approva	-					
General Product A						Declaration of Conformity
		<u>Confirmatic</u>	<u>on</u>		EHC	CE EG-Konf.
Declaration of Conformity	Test Certificates			Marine / Shipping		
UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ca</u> ate	<u>ertific-</u>	ABS	BUREAU VERITAS	
Marine / Shipping					other	
Llovd's Register uts	PRS	RINA		KMRS	<u>Confirmation</u>	UDE VDE
Railway						
<u>Confirmation</u>	Vibration and Shock					
Further information						

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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-0KA10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-0KA10&objecttype=14&gridview=view1





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