SIEMENS

Data sheet

3RV1011-0GA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

product brand name	SIRIUS				
product designation	Circuit breaker				
design of the product	For motor protection				
product type designation	3RV1				
General technical data					
size of the circuit-breaker	S00				
size of contactor can be combined company-specific	S00				
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				
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)	01/01/2013				
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	Main circuit				
number of poles for main current circuit	3				
number of poles for main current circuit adjustable current response value current of the current-dependent overload release	3 0.45 0.63 A				
adjustable current response value current of the					
adjustable current response value current of the current-dependent overload release					
adjustable current response value current of the current-dependent overload release operating voltage	0.45 0.63 A				
adjustable current response value current of the current-dependent overload release operating voltage • rated value	0.45 0.63 A 20 690 V				
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	0.45 0.63 A 20 690 V 690 V				
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum	0.45 0.63 A 20 690 V 690 V 690 V				
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value	0.45 0.63 A 20 690 V 690 V 690 V 50 60 Hz				
adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value	0.45 0.63 A 20 690 V 690 V 690 V 50 60 Hz				

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	
— 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
operating frequency	
● at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 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 (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
breaking capacity operating short-circuit current (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	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	C300 / 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 gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)

design of the fuse link for IT network for short-circuit protection of the main circuit				
• at 240 V	none required			
• at 400 V	None required			
• at 500 V	gL/gG 6 A			
• at 690 V	gL/gG 6 A			
Installation/ mounting/ dimensions	gigo o A			
	274			
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
height	90 mm			
width	45 mm			
depth	75 mm			
required spacing				
 for grounded parts at 400 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for live parts at 400 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for grounded parts at 500 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for live parts at 500 V 				
— downwards	20 mm			
— upwards	20 mm			
— at the side	9 mm			
 for grounded parts at 690 V 				
— downwards	20 mm			
— upwards	20 mm			
– backwards	0 mm			
— at the side	9 mm			
— forwards	0 mm			
• for live parts at 690 V				
— downwards	20 mm			
— upwards	20 mm			
— backwards	0 mm			
— at the side	9 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	Top and bottom			
circuit				
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)			
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
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			
size of the screwdriver tip	Pozidriv size 2			
design of the thread of the connection screw				
for main contacts	M3			

 of the auxiliary a 	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			
protection class IP on the front according to IEC 60529			IP20			
touch protection on the front according to IEC 60529 display version for switching status			finger-safe, for vertical contact from the front Rocker switch			
Certificates/ approval	0		Rocker switch			
Certificates/ approval	5					
General Product Ap	proval				For use in hazard- ous locations	
					oud looutions	
	CCC	<u>Confirmatio</u>		EAC	Ex ATEX	
For use in hazard- ous locations	Declaration of Confo	ormity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS	Lloyds Register urs	PRS	RINA	RMRS	DINV-GL	
other			Railway			
<u>Miscellaneous</u>	<u>Confirmation</u>		Special Test Certific- ate			
Further information						
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?mlfb=3RV1011-0GA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0GA15						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0GA15						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0GA15⟨=en</u> Characteristic: Tripping characteristics, I ² t, Let-through current http://www.automation.siemens.com/automatica/2D/14014_0CA15/char						
Further characterist	https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0GA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0GA15&objecttype=14&gridview=view1					

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