SIEMENS

Data sheet

3RV1011-0KA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.9...1.25 A N-release 16 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
	S00
size of the circuit-breaker	
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	5 F W
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	
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	0.6 kW
— 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	0.6 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	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	0.5 A
• at 24 V	1 A
• at 60 V	0.15 A
	0.10 A
Districtive and manifesting functions	
Protective and monitoring functions	
product function	No
product function ground fault detection	No
product functionground fault detectionphase failure detection	Yes
 product function ground fault detection phase failure detection trip class 	Yes CLASS 10
product function ground fault detection phase failure detection trip class design of the overload release 	Yes
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu)	Yes CLASS 10 thermal
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • breaking capacity operating short-circuit current (lcs)	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (lcs) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (lcs) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 1 125 A 1.25 A
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 100 kA 2 kA 16 A 1.25 A 1.25 A 1.25 A
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 460/480 V rated	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 16 A 1.25 A 1.25 A 1.25 A
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 400 V rated value • at 600 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 460/480 V	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 100 kA 2 kA 16 A 1.25 A 1.25 A 1.25 A
product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 600 V rated value • at 460/480 V rated	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 16 A 1.25 A 1.25 A 1.25 A

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	gL/gG 20 A			
● 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	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 	3 1111			
- downwards	20 mm			
	20 mm			
— upwards				
— 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 circuit	Top and bottom			
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			

	ntacts with screw-type ter		0.8 1.2 N·m			
	size of the screwdriver tip		Pozidriv size 2			
-	l of the connection scre					
 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 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			
	on the front according t	o IEC	IP20			
60529						
	the front according to		finger-safe, for vertical contact from the front			
display version for sw	-	_	Rocker switch			
Certificates/ approval	S	_				
General Product Ap	oproval				For use in hazard- ous locations	
(T)	Confirmation	(m)	Ē	гпг	IECE ₂	
QE		<u>m</u>	(ND)	FHI	iece,	
CSA		ccc	UL	P11P	IECEx	
For use in hazard-						
ous locations	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
		~ ~	Type Test Certific-	Special Test Certific-	A CONTRACTOR	
(Ex)	UK	(E	ates/Test Report	ate		
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Marine / Shipping						
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other			Railway			
Miscellaneous	Confirmation		Special Test Certific- ate			
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		VDE				
Further information						
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=3RV1011-0KA15						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0KA15						
				<u>11-0KA15</u>		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0KA15						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0KA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0KA15&objecttype=14&gridview=view1

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