SIEMENS

Data sheet

3RV2011-0KA15



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

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. 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
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code acc. to IEC 81346-2	Q
Ambient conditions	_
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature during transport 	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	0.9 1.25 A



current-dependent overload release	
 operating voltage rated value 	690 V
 operating voltage at AC-3 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
operating power at AC-3	
at 230 V rated value	180 W
 at 400 V rated value 	370 W
 at 500 V rated value 	370 W
at 690 V rated value	750 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
	transversa
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 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 operating short-circuit current (lcs)	
at AC	
	100 kA
 at 240 V rated value 	
 at 240 V rated value at 400 V rated value 	100 kA
• at 400 V rated value	100 kA
at 400 V rated valueat 500 V rated value	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu)	100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 	100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value 	100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 	100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 response value current of instantaneous short-circuit trip 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 t AC at 690 V rated value t AC at 690 V rated value at AC at 690 V rated value 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 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 response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value at 600 V rated value 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 bresponse 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 at 600 V rated value bresponse AC motor bresponse AC motor 	100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 125 A 1.25 A
 at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 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 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 at 600 V rated value 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL 	100 kA 100 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value at 575/600 V rated value at 575/600 V rated value bort-circuit protection product function short circuit protection 	100 kA 100 kA 125 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 kA 1.25 kA
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip 	100 kA 100 kA 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A
 at 400 V rated value at 500 V rated value at 690 V rated value 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 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 at 600 V rated value at 575/600 V rated value at 575/600 V rated value bort-circuit protection product function short circuit protection 	100 kA 100 kA 125 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 A 1.25 kA 1.25 kA



required	lk < 400 A)				
design of the fuse link for IT network for short-circuit					
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	45 mm				
depth	97 mm				
required spacing					
for grounded parts at 400 V	20 mm				
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for live parts at 400 V	20 mm				
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 500 V 	20 mm				
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for live parts at 500 V	20 mm				
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
for grounded parts at 690 V	50				
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
• for live parts at 690 V	50 mm				
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
Connections/ Terminals					
product function removable terminal for auxiliary and	No				
control circuit					
type of electrical connection	corow two torminals				
for main current circuit for auxilian, and control circuit	screw-type terminals				
for auxiliary and control circuit arrangement of electrical connectors for main current circuit	screw-type terminals 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 (0,75 2,5 mm ²), 2x (0.75 2.5 mm ²)				
 at AWG cables for main contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm)				
type of connectable conductor cross-sections	LA (10 17), LA 12				
for auxiliary contacts					
solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)				
 — solid of stranded — finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
 at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 2x (20 16), 2x (18 14)				



• tightening torg	le for main contacts wit	h screw-type	0.8 1.2 N·m				
 tightening torque for main contacts with screw-type terminals 		0.0 1.2 IV III					
 tightening torque 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 2				
design of the thread	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 dema 	with high demand rate acc. to SN 31920						
proportion of dange	proportion of dangerous failures						
 with low deman 	 with low demand rate acc. to SN 31920 			50 %			
 with high dema 	nd rate acc. to SN 319	20	50 %				
failure rate [FIT]							
	nd rate acc. to SN 3192		50 FIT				
T1 value for proof te IEC 61508	T1 value for proof test interval or service life acc. to IEC 61508			10 у			
	on the front acc. to IE		IP20				
touch protection on	the front acc. to IEC	60529	finger-safe, for vertical conta	act from the front			
display version for sw	vitching status		Handle				
Certificates/ approval	s						
General Product Ap	oproval				For use in hazardous locations		
(SP) SM	CCC	Ű	<u>KC</u>	EAC	IECEx		
For use in hazardous locations	Declaration of Con	formity	Test Certificates		Marine / Shipping		
K ATEX	<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Test</u> <u>Certificate</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	ABS		
Marine / Shipping							
BUREAU VERITAS	Llovd's Register urs	PRS	RINA	RMRS			
other		Railway					
<u>Confirmation</u>	DE	<u>Confirmation</u>	<u>Vibration and Shock</u>				
Eurthoninformation							
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=3RV2011-0KA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0KA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

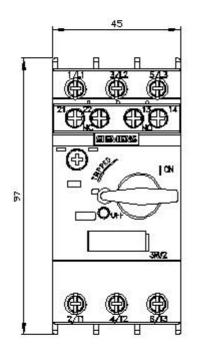
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0KA15&lang=en

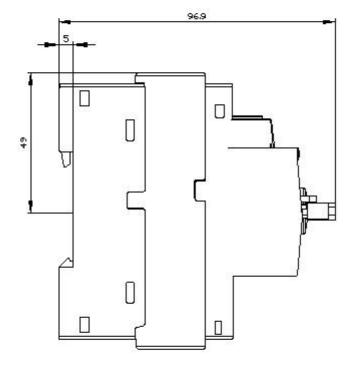
Characteristic: Tripping characteristics, I²t, Let-through current

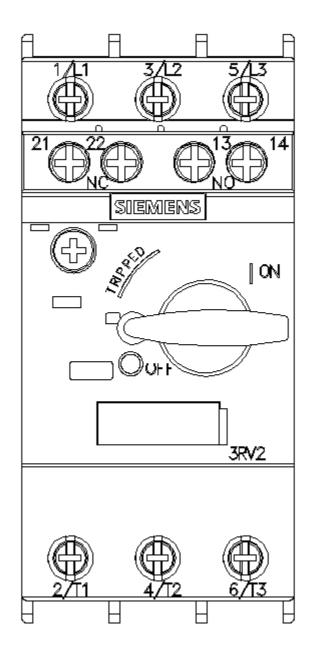
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA15/char

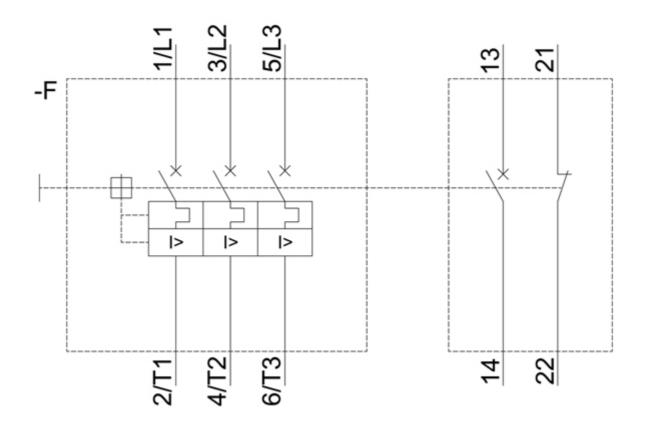
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0KA15&objecttype=14&gridview=view1









last modified:

12/15/2020 🖸