## 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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-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	
<ul> <li>operating voltage rated value</li> </ul>	690 V
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	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
<ul> <li>at 400 V rated value</li> </ul>	370 W
<ul> <li>at 500 V rated value</li> </ul>	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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs)	
at AC	
	100 kA
<ul> <li>at 240 V rated value</li> </ul>	
<ul> <li>at 240 V rated value</li> <li>at 400 V rated value</li> </ul>	100 kA
• at 400 V rated value	100 kA
<ul><li>at 400 V rated value</li><li>at 500 V rated value</li></ul>	100 kA 100 kA
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	100 kA 100 kA
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> breaking capacity maximum short-circuit current (Icu)	100 kA 100 kA 100 kA
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>breaking capacity maximum short-circuit current (Icu)</b> <ul> <li>at AC at 240 V rated value</li> </ul>	100 kA 100 kA 100 kA
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> breaking capacity maximum short-circuit current (Icu) <ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> </ul>	100 kA 100 kA 100 kA 100 kA
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<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>breaking capacity maximum short-circuit current (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>at AC at 690 V rated value</li> <li>response value current of instantaneous short-circuit trip unit</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	100 kA 100 kA
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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				
<ul> <li>for grounded parts at 500 V</li> </ul>	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				
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0,75 2,5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>at AWG cables for main contacts</li> </ul>	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)				
<ul> <li>— solid of stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>-</sup> ), 2x (0.75 2.5 mm <sup>-</sup> ) 2x (20 16), 2x (18 14)				



• tightening torg	le for main contacts wit	h screw-type	0.8 1.2 N·m				
<ul> <li>tightening torque for main contacts with screw-type terminals</li> </ul>		0.0 1.2 IV III					
<ul> <li>tightening torque for auxiliary contacts with screw- type terminals</li> </ul>			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						
	<ul> <li>for main contacts</li> </ul>			M3			
	<ul> <li>of the auxiliary and control contacts</li> </ul>			M3			
Safety related data							
B10 value							
<ul> <li>with high dema</li> </ul>	with high demand rate acc. to SN 31920						
proportion of dange	proportion of dangerous failures						
<ul> <li>with low deman</li> </ul>	<ul> <li>with low demand rate acc. to SN 31920</li> </ul>			50 %			
<ul> <li>with high dema</li> </ul>	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,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

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, ...)

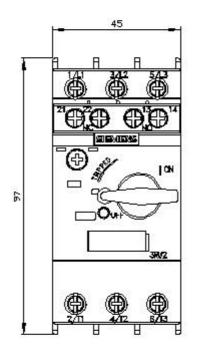
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0KA15&lang=en

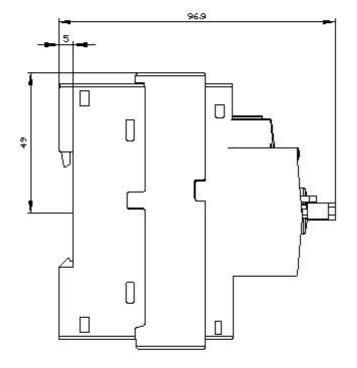
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

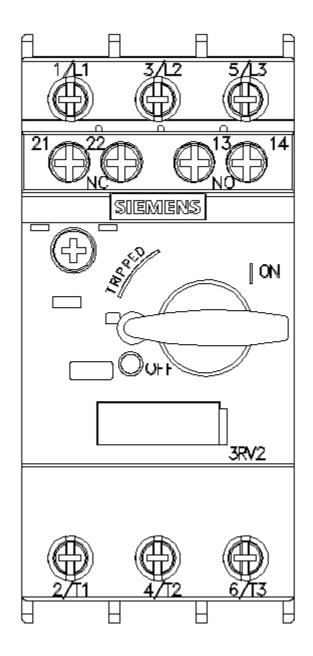
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0KA15/char

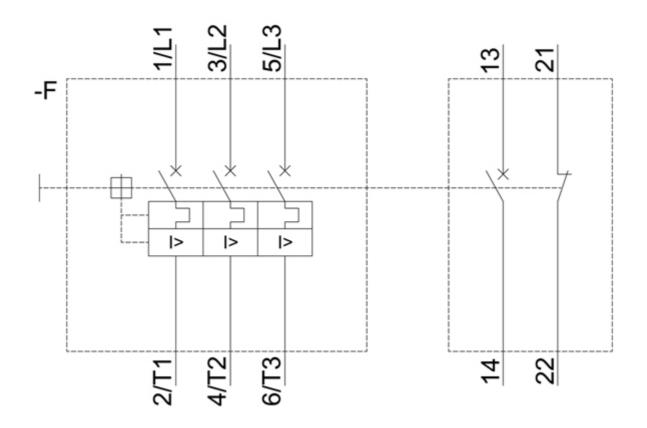
Further characteristics (e.g. electrical endurance, switching frequency)

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









last modified:

12/15/2020 🖸