SIEMENS

Data sheet

3RV1011-0HA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC $\,$

83	
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 (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating 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	0.55 0.8 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	0.8 A
operational current	
 at AC-3 at 400 V rated value 	0.8 A
 at AC-3e at 400 V rated value 	0.8 A
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	0.3 kW
— at 690 V rated value	0.4 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	0.3 kW
— at 690 V rated value	0.4 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
maximum short-circuit current breaking capacity (Icu)	
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
operating short-circuit current breaking capacity (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	10 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	0.8 A
 at 600 V rated value 	0.8 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 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik <
required	400 Ă)
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					
mounting position	any				
fastening method	screw and snap-on mounting onto 35 mm DIN 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	22				
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
for grounded parts at 500 V	00				
— downwards	20 mm				
— upwards	20 mm				
— at the side	9 mm				
• for live parts at 500 V	20 mm				
— downwards	20 mm				
— upwards — at the side	20 mm 9 mm				
 for grounded parts at 690 V 	9 11111				
 Hor 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 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 mm²), 2x (0.75 2.5 mm²)				
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	MO				
 for main contacts of the auxiliary and control contacts 	M3 M3				
Safety related data					
B10 value	5.000				
with high demand rate according to SN 31920	5 000				
proportion of dangerous failures	F0.0/				
with low demand rate according to SN 31920 with high demand rate according to SN 31920	50 %				
with high demand rate according to SN 31920 failure rate [EIT]	50 %				
failure rate [FIT] • with low demand rate according to SN 31920	50 FIT				
 with low demand rate according to SN 31920 	30111				

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 display version for switching status IP20

finger-safe, for vertical contact from the front Rocker switch

Certificates/ approval		Ru	cker switch	_	_
General Product Ap					For use in hazard- ous locations
		<u>Confirmation</u>		EHC	IECEx
For use in hazard- ous locations	Declaration of Conformity		Test Certificates		Marine / Shipping
KEx ATEX	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					
B UREAU VERITAS	Lloyd's Register uts	PRS	RINA	RMRS RMRS	UNV-GL
other			Railway		
<u>Confirmation</u>	<u>Miscellaneous</u>	UDE VDE	<u>Special Test Certific-</u> <u>ate</u>		
Further information					

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV1011-0HA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0HA15

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA15}$

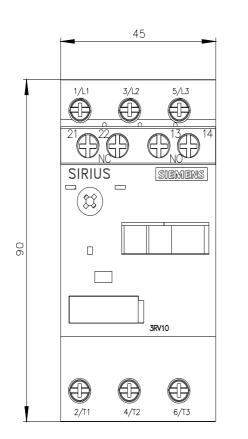
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0HA15&lang=en

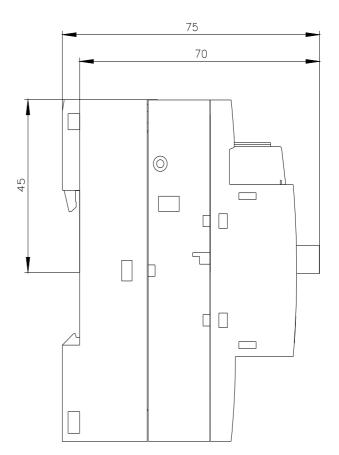
Characteristic: Tripping characteristics, I²t, Let-through current

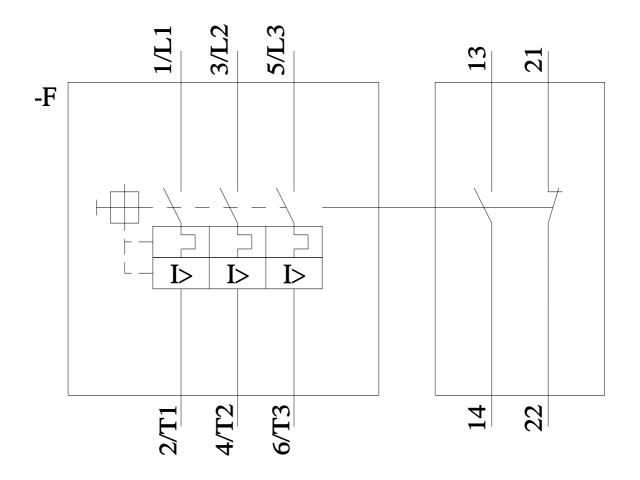
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0HA15&objecttype=14&gridview=view1







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