SIEMENS

Data sheet 3RV1011-0FA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.35...0.5 A N-release 6.5 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		
Ambient conditions		
Ambient conditions installation altitude at height above sea level maximum	2 000 m	
	2 000 m	
installation altitude at height above sea level maximum	2 000 m -20 +60 °C	
installation altitude at height above sea level maximum ambient temperature		
installation altitude at height above sea level maximum ambient temperature • during operation	-20 +60 °C	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage	-20 +60 °C -50 +80 °C	
installation altitude at height above sea level maximum ambient temperature during operation during storage during transport	-20 +60 °C -50 +80 °C -50 +80 °C	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation	-20 +60 °C -50 +80 °C -50 +80 °C	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 %	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit 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	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit 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	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 A 20 690 V 690 V 690 V 50 60 Hz	
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit 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	-20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 0.35 0.5 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	0.12 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	0.12 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
	1
number of NO contacts for auxiliary contacts • note	1
	0
number of CO contacts for auxiliary contacts	U
operational current of auxiliary contacts at AC-15	2.4
• 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 (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
breaking capacity operating short-circuit current (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 unit	6.5 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.5 A
at 400 V rated value at 600 V rated value	0.5 A
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
	Voc
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	fue 20.40 A minimum of 111 1 20.0 A / 1 1 1 1
 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	None required
• at 690 V	gL/gG 4 A
nstallation/ mounting/ dimensions	9-3
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 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	

 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
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Rocker switch

Certificates/ approvals

General Product Approval

For use in hazardous locations





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping













other

Railway

Confirmation

Miscellaneous



Special Test Certific-<u>ate</u>

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=3RV1011-0FA15

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1011-0FA15}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA15

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

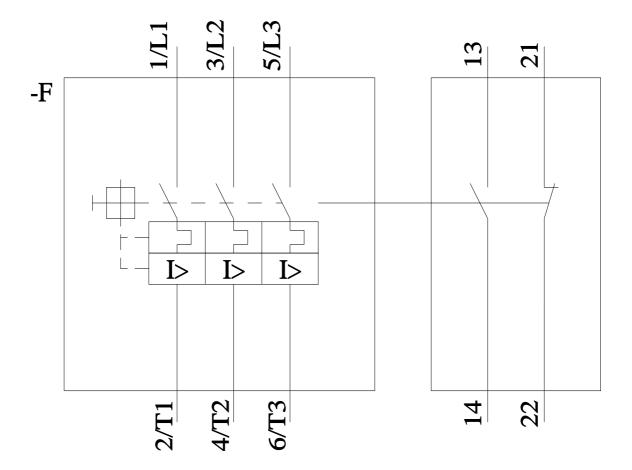
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0FA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0FA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0FA15&objecttype=14&gridview=view1



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