SIEMENS

Data sheet 3RV1011-1JA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 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 	9.25 W	
at AC in hot operating state per pole	3.1 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	
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 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 current-dependent overload release	7 10 A	
 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	10 A	

operational current at AC-3 at 400 V rated value operating power at AC-3	10 A
a at 220 V roted value	
 at 230 V rated value 	2 200 W
• at 400 V rated value	4 000 W
at 500 V rated value	5 500 W
at 690 V rated value	7 500 W
operating frequency at AC-3 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
breaking capacity operating short-circuit current (lcs)	
at AC	
at 240 V rated value	100 kA
at 400 V rated value	12.5 kA
at 500 V rated value	3 kA
at 690 V rated value	2 kA
breaking capacity maximum short-circuit current (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	50 kA
 at AC at 500 V rated value 	3 kA
at AC at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
at 400 V rated value at 600 V rated value	10 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 110/120 v rated value — at 230 V rated value	·
for 3-phase AC motor	1.5 hp
— at 200/208 V rated value	2 hn
	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
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 design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm 45 mm
for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit	gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
required design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 80 A gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 50 N any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
protection of the main circuit at 240 V at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 63 A gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 63 A gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
at 690 V Installation/ mounting/ dimensions mounting position fastening method height	gL/gG 50 A gL/gG 50 A any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
Installation/ mounting/ dimensions mounting position fastening method height	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
mounting position fastening method height	any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
mounting position fastening method height	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
fastening method height	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 90 mm
height	according to DIN EN 60715 90 mm
width	45 mm
	10 11111
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	3 mm
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
• for grounded parts at 690 V	3 mm
	20 mm
— downwards	20 mm
— upwards — backwards	
	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	20
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
product function removable terminal for auxiliary and control circuit	No
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
 tightening torque for auxiliary contacts with screw- type terminals 	0.8 1.2 N·m
size of the screwdriver tip	Pozidriv 2
design of the thread of the connection screw	
 for main contacts 	M3
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	
B10 value • with high demand rate acc. to SN 31920	5 000
	5 000
with high demand rate acc. to SN 31920	5 000 50 %
with high demand rate acc. to SN 31920 proportion of dangerous failures	
with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920	50 %
 with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 	50 %
with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT]	50 % 50 %
with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920	50 % 50 % 50 FIT
with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 protection class IP on the front acc. to IEC 60529	50 % 50 % 50 FIT IP20

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Special Test Certificate

Type Test
Certificates/Test
Report





Marine / Shipping

other









Confirmation

Miscellaneous

other

Railway



Special Test Certificate

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=3RV1011-1JA15

Cax online generator



 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1011-1JA15$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA15

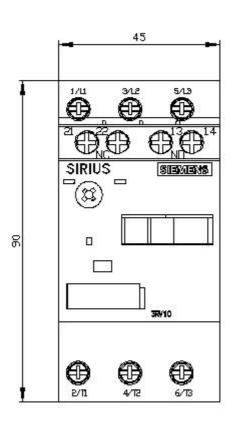
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-1JA15&lang=en

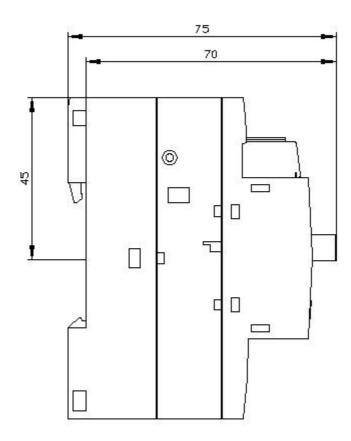
Characteristic: Tripping characteristics, I²t, Let-through current

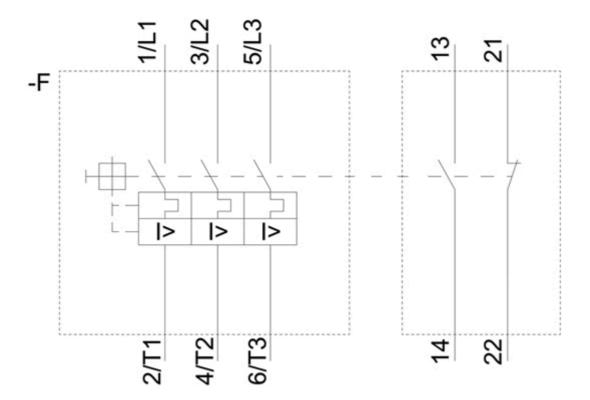
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1JA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1JA15&objecttype=14&gridview=view1







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