

3RV2011-1JA10 CIRCUIT-BREAKER SCREW CONNECTION 10A

Technical / CAx data

☒ Technical Data ☐ CAx data



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 7...10A, N-RELEASE 130A, SCREW CONNECTION, STANDARD SW. CAPACITY

General technical data:		
product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S00
Trip class		CLASS 10
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-50...+80
• during operating	°C	-20...+60
• during transport	°C	-50...+80
Resistance against shock		25g / 11 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690
Active power loss / total / typical	W	8.7
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		F
• according to DIN EN 61346-2		F
Mechanical operating cycles as operating time		
• of the main contacts / typical		100,000
• of the auxiliary contacts / typical		100,000
Type of the driving mechanism / motor drive		No
Design of the operating mechanism		selector switch
Product function		
• overload protection		Yes

• phase disturbance recognition	Yes
Product component	
• auxiliary switch	No
• undervoltage release mechanism	No
• trip indicator	No
Product extension / optional / motor drive	No

Main circuit:

Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current / at AC-3 / at 400 V / rated value	A	8.5
Service power / at AC-3		
• at 400 V / rated value	W	4,000
• at 500 V / rated value	W	5,500
• at 690 V / rated value	W	7,500
Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum	1/h	15
Arrangement of electrical connectors / for main current circuit		Top and bottom
Adjustable response current		
• of the non-delayed short-circuit release	A	130...130
• of the current-dependent overload release	A	7...10
Service power / at AC-3 / at 230 V / rated value	W	2,200
Continuous current / rated value	A	10

Auxiliary circuit:

Product extension / auxiliary switch	Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching	0
Number of NO contacts / for auxiliary contacts / instantaneous switching	0
Number of change-over switches / for auxiliary contacts	0

Inputs/ Outputs:

Number of digital inputs	0
---------------------------------	---

Short-circuit:

Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value	A	100,000
• at 500 V / rated value	A	42,000
• at 690 V / rated value	A	6,000
Design of the overcurrent release and short-circuit release		thermomagnetic

Installation/mounting/dimensions:

Built in orientation		any
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Width	mm	45
Height	mm	97
Depth	mm	91
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	50
• downwards	mm	50
• sideways	mm	0
Distance, to be maintained, to earthed part		
• forwards	mm	0
	mm	0

- backwards - upwards - sideways - downwards	mm	50
	mm	30
	mm	50
Distance, to be maintained, conductive elements		
- forwards - backwards - upwards - downwards - sideways	mm	0
	mm	0
	mm	50
	mm	50
	mm	30

Connections:

Product function	
- removable terminal for main circuit - removable terminal for auxiliary and control circuit	No No
Design of the electrical connection	
for main current circuit	screw-type terminals
Type of the connectable conductor cross-section	
- for main contacts - solid - finely stranded - with conductor end processing - for AWG conductors / for main contacts	2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (18 ... 14), 2x 12

Certificates/approvals:

Verification of suitability	CE / UL / CSA
- für Staubexplosionsschutz für Zone 21/22 - for gas explosion protection for zone 1/2	no no

General Product Approval

For use in hazardous locations

☒ CCC	☒ CSA	☒ GOST	☒ UL	☒ ATEX-EC-Type
---	---	--	--	--

Test Certificates

other	Special Test Certificate	Type Test Certificates/Test Report
-------	--------------------------	------------------------------------

Shipping Approval

☒ ABS (America)	☒ GL / Germanis	☒ LRS / Lloyds	☒ PRS / Polski R	☒ RINA / Registr	☒ RMRS / Russia
---	---	--	--	--	---

other

☒ Household ar	Declaration of Conformity	other
--	---------------------------	-------

UL/CSA ratings

yielded mechanical performance (hp)	
- for single-phase squirrel cage motors - at 110/120 V / rated value - at 230 V / rated value - for three-phase squirrel cage motors - at 200/208 V / rated value - at 220/230 V / rated value - at 460/480 V / rated value - at 575/600 V / rated value	hp 0.5 hp 1.5 hp 2 hp 3 hp 5 hp 7.5
Operating current (FLA) / for three-phase squirrel cage motors	A 7.6

- at 480 V / rated value
- at 600 V / rated value

A 9

Safety:

B10 value / with high demand rate

- according to SN 31920

50,000

T1 value / for proof test interval or service life

- according to IEC 61508

a 10

Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT 50

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

% 40

% 40

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

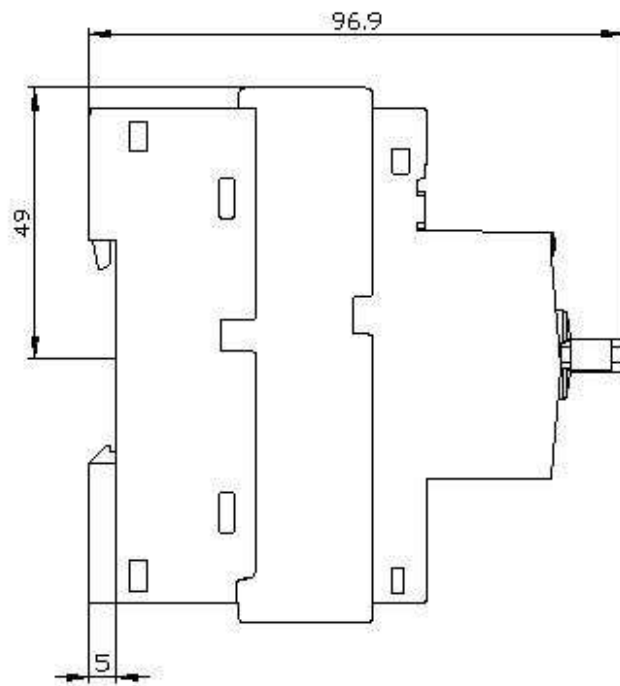
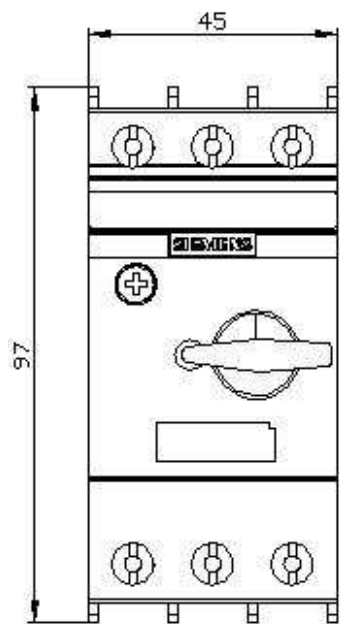
<http://www.siemens.com/cax>

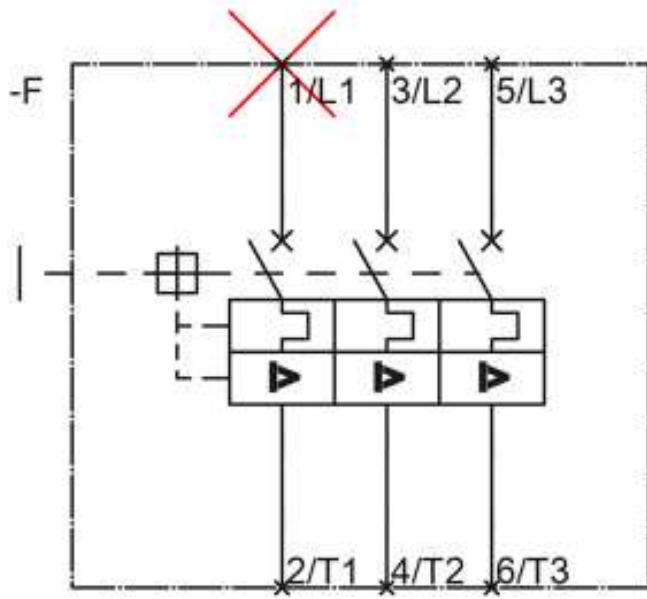
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RV2011-1JA10/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1JA10





last change:

Mar 27, 2012