SIEMENS

Product data sheet

3RV2011-1FA15



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 3.5...5A, N-RELEASE 65A, SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

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	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
Design of the auxiliary switch		transverse
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		Yes
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	4.9
Service power / at AC-3	-	
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	2,200
• at 690 V / rated value	W	4,000
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	А	65 65
of the current-dependent overload release	А	3.5 5
Service power / at AC-3 / at 230 V / rated value	W	1,100
Continuous current / rated value	А	5
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Number of change-over switches / for auxiliary contacts		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	А	2.5

• at AC-15		
• at 24 V	А	2
• at 230 V	А	0.5
• at DC-13		
• maximum	А	1
• at 24 V	А	1
• at 60 V	А	0.15

0

Inputs/ Outputs:

Number of digital inputs

Short-circuit:		
Breaking capacity limit short-circuit current (lcu)		
• at 400 V / rated value	А	100,000
• at 500 V / rated value	А	100,000
• at 690 V / rated value	А	6,000
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
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
• sidewards	mm	0
Distance, to be maintained, to earthed part		
forwards	mm	0
backwards	mm	0
• upwards	mm	50
• sidewards	mm	30
downwards	mm	50
Distance, to be maintained, conductive elements		
forwards	mm	0
backwards	mm	0

• upwards	mm	50
downwards	mm	50
• sidewards	mm	30
Connectioner		
Connections:		
Product function		
removable terminal for main circuit		No
removable terminal for auxiliary and control circuit		No
Design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of the connectable conductor cross-section		
for main contacts		
• solid		2x (0.75 2.5 mm²), 2x (1 4 mm²)
• stranded		2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for main contacts 		2x (18 14), 2x 12
for auxiliary contacts		
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors / for auxiliary contacts 		2x (20 16), 2x (18 14)
Certificates/approvals:		
Verification of suitability		CE / UL / CSA
für Staubexplosionsschutz für Zone 21/22		no
 for gas explosion protection for zone 1/2 		no

General Product Approval For use in hazardous locations Image: Copy of the state	
CQC ESA DMT Test Certificates	General Product App
coc CSA UL Test Certificates	Cac
Test Certificates	
Shipping Approval	
	CAN B)
GLO Hoyds Register	ALL CALLER CONTRACTOR
ABS GL LRS PRS RINA RMRS	
Manufacturer other	
	Manufacturer
VDE	
L/CSA ratings	L/CSA ratings
ielded mechanical performance (hp)	elded mechanical pe
for single-phase squirrel cage motors	 for single-phase square
• at 110/120 V / rated value hp 0.167	• at 110/120 V / ra
• at 230 V / rated value hp 0.5	• at 230 V / rated v
for three-phase squirrel cage motors	 for three-phase squ
• at 200/208 V / rated value hp 1	• at 200/208 V / ra
• at 220/230 V / rated value hp 1	• at 220/230 V / ra
• at 460/480 V / rated value hp 3	• at 460/480 V / ra
• at 575/600 V / rated value hp 3	• at 575/600 V / ra
perating current (FLA) / for three-phase squirrel cage motors	perating current (FL
• at 480 V / rated value A 4.8	• at 480 V / rated value
• at 600 V / rated value A 3.9	• at 600 V / rated valu
ontact rating designation / for auxiliary contacts / according to L C300 / R300	
afety:	afety:
10 value / with high demand rate	10 value / with high o
• according to SN 31920 50,000	• according to SN 31
1 value / for proof test interval or service life	1 value / for proof tes
• according to IEC 61508 a 10	• according to IEC 61

Failure rate (FIT value) / with low demand rate

• with low demand rate / according to SN 31920

• with high demand rate / according to SN 31920

• according to SN 31920

Proportion of dangerous failures

FIT

%

%

50

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)

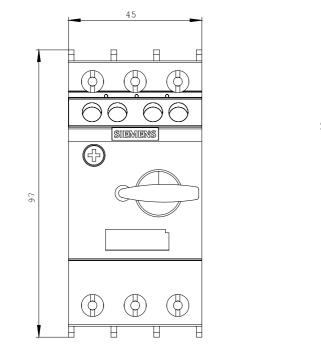
http://www.siemens.com/industrial-controls/mall

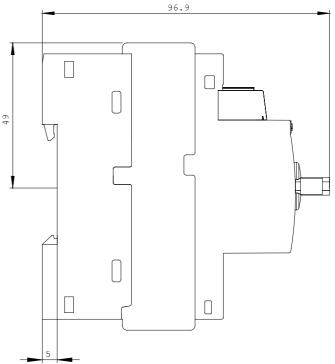
CAx-Online-Generator

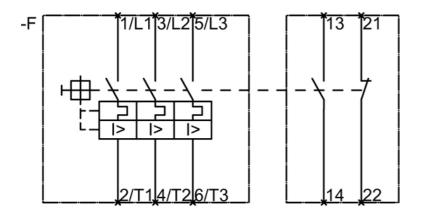
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2011-1FA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1FA15







last change:

Oct 24, 2011