SIEMENS

Product data sheet 3RV2011-1GA25

CIRCUIT-BREAKER SZ S00,
FOR MOTOR PROTECTION, CLASS 10,
A-RELEASE 4.5...6.3A,
N-RELEASE 82A SPRING-L. 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
Number of poles / for main current circuit		3
Product function		
• removable terminal for auxiliary and control circuit		No
• overload protection		Yes
• phase disturbance recognition		Yes
• short-circuit to earth recognition		No
Product component		
• auxiliary switch		Yes
• undervoltage release mechanism		No
• trip indicator		No
Product extension		
• auxiliary switch		Yes
• optional / motor drive		No
Impulse voltage resistance / rated value	kV	6
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe

Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		25g / 11 ms
Ambient temperature		
• during transport	°C	-50 … +80
• during storage	°C	-50 … +80
• during operating	°C	-20 … +60
Active power loss / total / typical	W	6.7

Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3		
• at 400 V / rated value	W	2,200
• at 500 V / rated value	W	3,000
• at 690 V / rated value	W	4,000
Operational current / at AC-3 / at 400 V / rated value	A	6.3
Mechanical operating cycles as operating time / of the main contacts / typical		100,000
Frequency of operation / at AC-3 / according to IEC 60947-6-2	1/h	15

Auxiliary circuit:		
Design of the auxiliary switch		transverse
Number of change-over switches / for auxiliary contacts		0
Mechanical operating cycles as operating time / of the auxiliary contacts / typical		100,000
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)
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	A	2
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	A	0.5
• at DC-13		
• at 24 V	A	1
• at 60 V	A	0.15

Protection function:		
Trip class		CLASS 10
Adjustable response current / of the current-dependent overload release	A	4.5 … 6.3
Breaking capacity limit short-circuit current (Icu)		
• at 400 V / rated value	A	100,000
• at 500 V / rated value	A	100,000
• at 690 V / rated value	A	6,000

Safety:		
Proportion of dangerous failures		
• with high demand rate / according to SN 31920	%	40
• with low demand rate / according to SN 31920	%	40
Failure rate (FIT value) / with low demand rate / according to SN 31920	FIT	50
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

Installation/mounting/dimensions:		
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
mounting position		any
Depth	mm	96
Height	mm	109
Width	mm	45

Connections:		
Arrangement of electrical connectors / for main current circuit		Top and bottom
Design of the electrical connection		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (0.5 ... 4 mm²)
• finely stranded		
• without conductor final cutting		2x (0.5 ... 2.5 mm²)
• with conductor end processing		2x (0.5 ... 2.5 mm²)
• for AWG conductors / for main contacts		2x (20 ... 12)
• for auxiliary contacts		
• solid		2x (0.5 ... 2.5 mm²)
• finely stranded		
• without conductor final cutting		2x (0.5 ... 1.5 mm²)
• with conductor end processing		2x (0.5 ... 1.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 14)

UL/CSA ratings:		
yielded mechanical performance (hp)		
• for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	0.25
• at 230 V / rated value	hp	0.5

• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	1
• at 220/230 V / rated value	hp	1.5
• at 460/480 V / rated value	hp	3
• at 575/600 V / rated value	hp	5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	A	4.8
• at 600 V / rated value	A	6.1
Contact rating designation / for auxiliary contacts / according to UL		C300 / R300

Certificates/approvals:

General Product Approval			For use in hazardous locations	Declaration of Conformity
CSA	GOST	UL	ATEX	EG-Konf.

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

Shipping Approval					
ABS	DNV	GL	LRS	PRS	RINA

Shipping Approval	other	
RMRS	VDE	other

Further information:

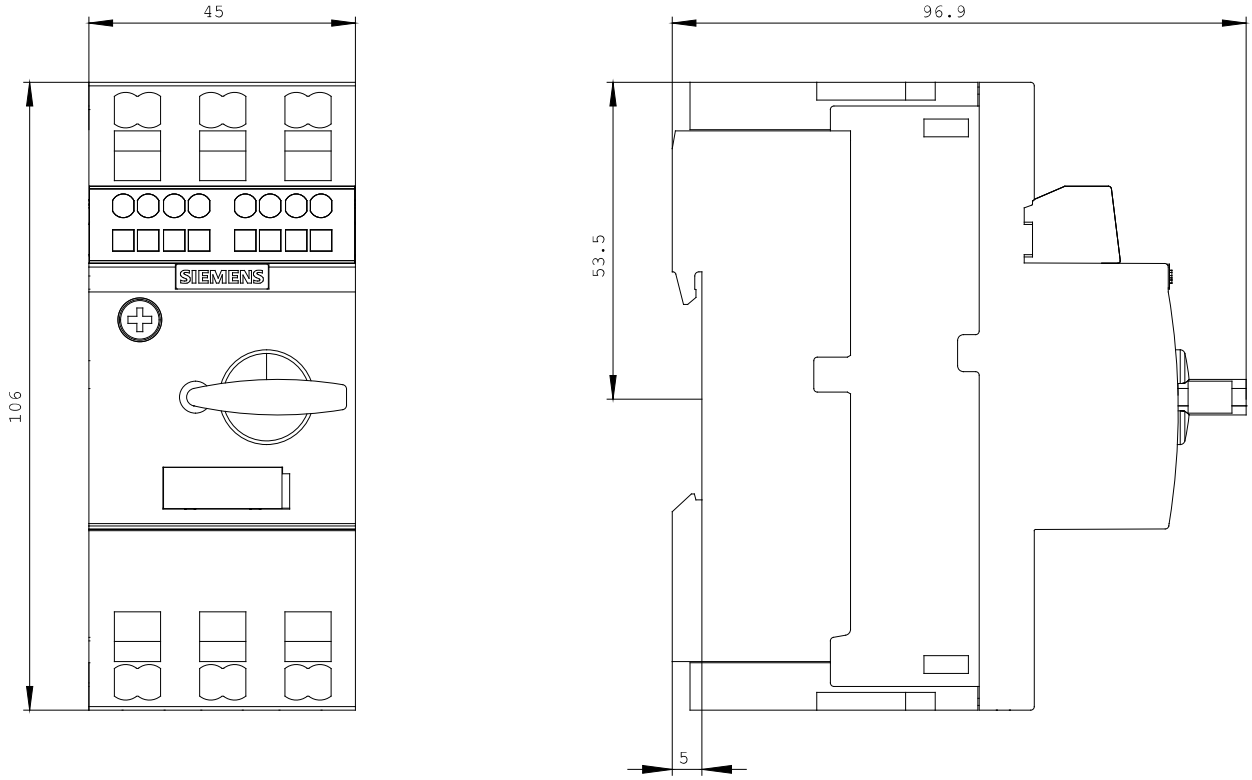
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

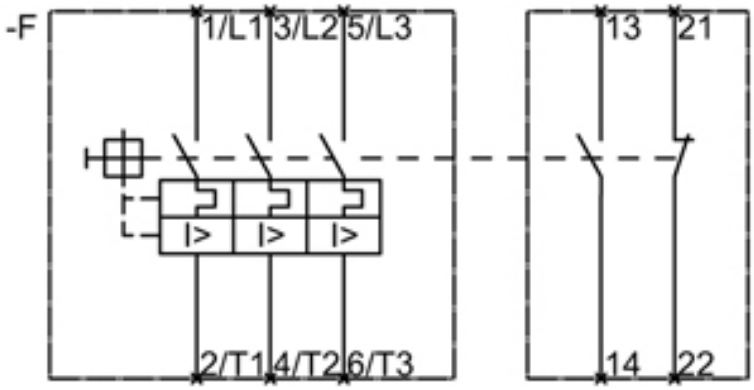
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

Cax online generator:
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RV2011-1GA25/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1GA25





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