SIEMENS

Product data sheet 3RV2011-1HA25



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 5.5...8A, N-RELEASE 104A, 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

m	2,000
	25g / 11 ms
°C	-50 +80
°C	-50 +80
°C	-20 +60
W	7.3
	°C °C °C

Main circuit:		
Operating voltage / rated value	V	690
Service power / at AC-3		
• at 400 V / rated value	W	3,000
• at 500 V / rated value	W	4,000
at 690 V / rated value	W	5,500
Operational current / at AC-3 / at 400 V / rated value	Α	8
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 lk < 400 A)
Operating current / of the auxiliary contacts / at AC-15 / at 24 V	А	2
Operating current / of the auxiliary contacts		
• at AC-15		
• at 230 V	Α	0.5
• at DC-13		
• at 24 V	Α	1
• at 60 V	Α	0.15

Protection function:			
Trip class		CLASS 10	
Adjustable response current / of the current-dependent overload release	A	5.5 8	
Breaking capacity limit short-circuit current (Icu)			
• at 400 V / rated value	Α	100,000	
• at 500 V / rated value	Α	42,000	
• at 690 V / rated value	Α	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	а	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	0.333
• at 230 V / rated value	hp	1

• for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	2
• at 220/230 V / rated value	hp	2
• at 460/480 V / rated value	hp	5
• at 575/600 V / rated value	hp	5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	7.6
• at 600 V / rated value	Α	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











Test Certificates

other

Special Test Certificate

Type Test
Certificates/Test
Report

Shipping Approval





other









Shipping Approval





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:

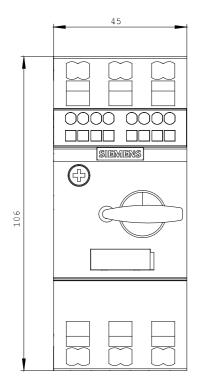
http://www.siemens.com/cax

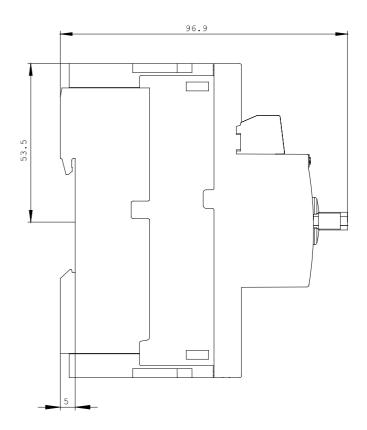
 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

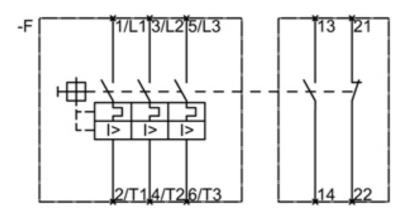
http://support.automation.siemens.com/WW/view/en/3RV2011-1HA25/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1HA25}}$







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