SIEMENS

Product data sheet



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 27...32A, N-RELEASE 400A, SCREW CONNECTION, STANDARD SW. CAPACITY,

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		S0
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	12.2
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	А	29
Service power / at AC-3		
• at 400 V / rated value	W	15,000
• at 500 V / rated value	W	18,500
• at 690 V / rated value	W	30,000
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	400 400
of the current-dependent overload release	А	27 32
Service power / at AC-3 / at 230 V / rated value	W	7,500
Continuous current / rated value	А	32
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

• at 400 V / rated valueA55,000• at 500 V / rated valueA10,000• at 690 V / rated valueA4,000Design of the overcurrent release and short-circuit releasethermomagneticInstallation/mounting/dimensions:Built in orientationan/Type of mountingmmascrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715Widthmm45Heightmm91Depthmm0i forwardsmm0· backwardsmm50· downwardsmm50· idewardsmm0· backwardsmm0· backwardsmm50· backwardsmm0· backwardsmm50· idewardsmm0· backwardsmm0· backwardsmm50· idewardsmm50· backwardsmm0· backwardsmm50· idewardsmm50· backwardsmm50· backwardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsmm50· idewardsimm50· idewardsimm	Short-circuit:		
A 10,000a 680 V / rated valueA 4,000Design of the overcurrent release and short-circuit releasethermomagneticInstallation/mounting/dimensions:anyBuilt norientationanyType of mountingserve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715Widthmm45Heightmm97Depthmm91•forwardsmm0•forwardsmm50	Breaking capacity limit short-circuit current (lcu)		
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Design of the overcurrent release and short-circuit release thermomagnetic Installation/mounting/dimensions: any 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 Height mm Depth mm Distance, to be maintained, to the ranks assembly rmm •forwards mm •forwards	• at 500 V / rated value	А	10,000
Installation/mounting/dimensions: any 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 91 Depth mm 0 • forwards mm 0 • upwards mm 50 • downwards mm 0 • isdewards mm 0 • isdewards mm 50 • isdewards mm 0 • isdewards mm 0 • isdewards mm 50 • upwards mm 50 • isdewards mm 50 • upwards mm 50 • upwards mm 50 • upwards mm 50	• at 690 V / rated value	А	4,000
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Distance, to be maintained, conductive elementsmm0• forwardsmm0• backwardsmm0• upwardsmm50• downwardsmm50	• sidewards	mm	30
• forwardsmm0• backwardsmm0• upwardsmm50• downwardsmm50	downwards	mm	50
• backwardsmm0• upwardsmm50• downwardsmm50	Distance, to be maintained, conductive elements		
• upwards mm 50 • downwards mm 50	• forwards	mm	0
• downwards mm 50	backwards	mm	0
	• upwards	mm	50
• sidewards mm 30	downwards	mm	50
	• sidewards	mm	30
Connections:	Connections:		
Product function	Product function		
removable terminal for main circuit	removable terminal for main circuit		No
removable terminal for auxiliary and control circuit	removable terminal for auxiliary and control circuit		No
Design of the electrical connection	Design of the electrical connection		
for main current circuit screw-type terminals	for main current circuit		screw-type terminals
Type of the connectable conductor cross-section	Type of the connectable conductor cross-section		
• for main contacts	for main contacts		

• solid		2x (1 2.5 mm²), 2x (2.5 10 mm²)
stranded		2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded		
 with conductor end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 for AWG conductors / for main contacts 		2x (16 12), 2x (14 8)
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
CQC CA		DEKRA EXAM, DMT
Test Certificates		
Manufacturer other		
Shipping Approval		
ABS GL LRS	PRS	
other		
Manufacturer other	Ş	
UL/CSA ratings		
yielded mechanical performance (hp)		
 for single-phase squirrel cage motors 		
• at 110/120 V / rated value	hp	2
• at 230 V / rated value	hp	5
 for three-phase squirrel cage motors 		
• at 200/208 V / rated value	hp	7.5
• at 220/230 V / rated value	hp	10
• at 460/480 V / rated value	hp	20
Operating current (FLA) / for three-phase squirrel cag	e motors	
• at 480 V / rated value	A	27
Safety:		
B10 value / with high demand rate		

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
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	%	40
with high demand rate / according to SN 31920	%	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)

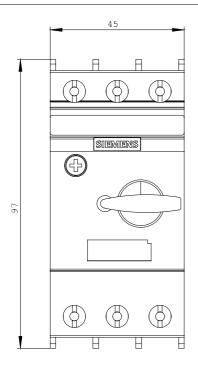
http://www.siemens.com/industrial-controls/mall

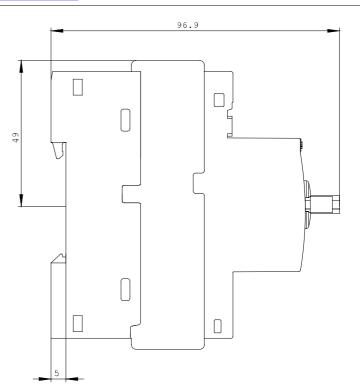
CAx-Online-Generator

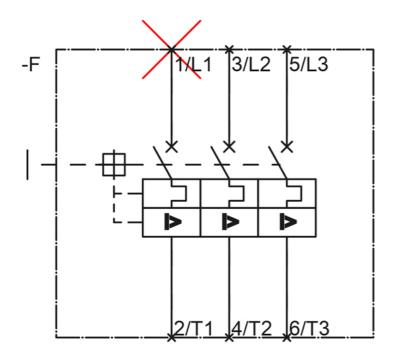
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-4EA10/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4EA10







last change:

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