SIEMENS

Product data sheet

3RV2021-4DA40



CIRCUIT-BREAKER SZ S0, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 20...25A, N-RELEASE 325A, RING CABLE LUG CONNECTION, STANDARD SW. CAPACITY,

General technical data:		
Product brand name		SIRIUS
product designation		3RV2 circuit breaker
Size of the circuit-breaker		SO
Trip class		CLASS 10
Protection class IP / on the front		IP00
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	10.4
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	22
Service power / at AC-3		
• at 400 V / rated value	W	11,000
• at 500 V / rated value	W	15,000
• at 690 V / rated value	W	22,000
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	325 325
 of the current-dependent overload release 	А	20 25
Service power / at AC-3 / at 230 V / rated value	W	5,500
Continuous current / rated value	А	25
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:		

Short-circuit:				
Breaking capacity limit short-circuit current (lcu)				
• at 400 V / rated value	А	55,000		
• at 500 V / rated value	А	10,000		
• at 690 V / rated value	А	4,000		
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		
• 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		
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		ring cable connection		
Certificates/approvals:				

	••••			A- - - - - - - - - -		
Verification of suitab		4/00			L/CSA	
für Staubexplosion			no			
for gas explosion		no				
General Product Ap	oproval				For use in haza	rdous locations
coc	(SP) CSA	ROSTEST			<u>DEKRA EXAM,</u> <u>DMT</u>	
Test Certificates						
Manufacturer	other					
Shipping Approval						
ABS	GL	Lloyd's Kegister Lrs	PRS		RINA	RMRS
other						
Manufacturer	<u>other</u>					
UL/CSA ratings						
yielded mechanical p	performance (hp)					
 for single-phase s 	quirrel cage motors					
• at 110/120 V /	rated value		hp	2		
• at 230 V / rated	d value		hp	3		
 for three-phase so 	quirrel cage motors					
• at 200/208 V / I	rated value		hp	5		
• at 220/230 V /	rated value		hp	7.5		
• at 460/480 V /	rated value		hp	15		
Operating current (F	LA) / for three-pha	se squirrel cage motors				
• at 480 V / rated va	• at 480 V / rated value			21		
Safety:						
B10 value / with high	demand rate					
according to SN 31920				50,000	I	
T1 value / for proof to	est interval or serv	ice life				
according to IEC 61508			а	10		
Failure rate (FIT valu	e) / with low dema	nd rate				
according to SN 31920			FIT	50		
Proportion of danger	rous failures					
with low demand rate / according to SN 31920			%	40		
• with high demand rate / according to SN 31920			%	40		
Protection against electrical shock				finger-s	cofo	

Further information:

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

Industry Mall (Online ordering system)

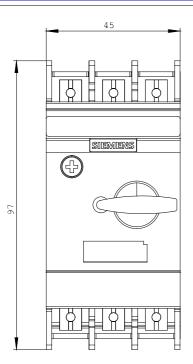
http://www.siemens.com/industrial-controls/mall

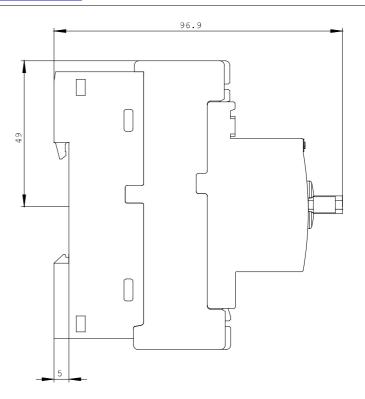
CAx-Online-Generator

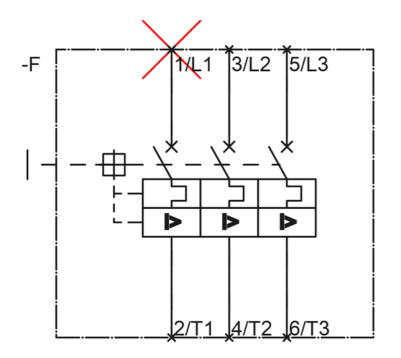
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV2021-4DA40/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2021-4DA40







last change:

Oct 17, 2011