SIEMENS

Data sheet

3RV2023-4DA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 20...25 A N-release 325 A screw terminal Switching capacity 30 kA at 600 V according to UL/CSA

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	SO
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	10.5 W
 at AC in hot operating state per pole 	3.5 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	18 25 A
operating voltage	
 rated value 	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	25 A
operational current	
• at AC-3 at 400 V rated value	25 A

• at AC-3e at 400 V rated value	25 A
	25 A
operating power	
• at AC-3	001111
— at 690 V rated value	22 kW
• at AC-3e	20.140
— at 690 V rated value	22 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	<u>.</u>
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	325 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	25 A
at 600 V rated value	25 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gG 63 A
● at 500 V	gG 50 A
• at 690 V	gG 50 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	30 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— at the side	30 mm

type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920	t To 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	crew-type terminals op and bottom x (1 2.5 mm²), 2x (2.5 1 x (1 2.5 mm²), 2x (2.5 6 x (16 12), 2x (14 8) 2.5 N·m iameter 5 to 6 mm ozidriv size 2			
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• with high demand rate according to SN 31920			M4		
 alue with high demand rate according to SN 31920 					
• with high demand rate according to SN 31920					
	5	000			
	5	000			
roportion of dangerous failures	-	n 9/			
with low demand rate according to SN 31920		0 % D %			
with high demand rate according to SN 31920	50	0 %			
ailure rate [FIT]					
with low demand rate according to SN 31920) FIT			
1 value for proof test interval or service life according to 1508	IEC 10	Da			
protection class IP on the front according to IEC 6052	9 IP	20			
ouch protection on the front according to IEC 60529	fir	nger-safe, for vertical contac	ct from the front		
lisplay version for switching status	H	Handle			
rtificates/ approvals					
	Ű	CUL	UK CA	EG-Konf.	
Test Certificates Marin	e / Shipping				
Special Test Certific- ate <u>ates/Test Report</u>	ABS	BUREAU VERITAS		Lloyds Register uis	
farine / Shipping other			Railway		
	<u>onfirmation</u>		Confirmation	Vibration and Sho	
ate ates/Test Report Marine / Shipping other			Railway		

Connections/ Terminals

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2023-4DA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

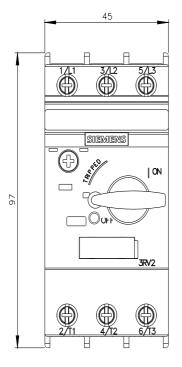
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4DA10

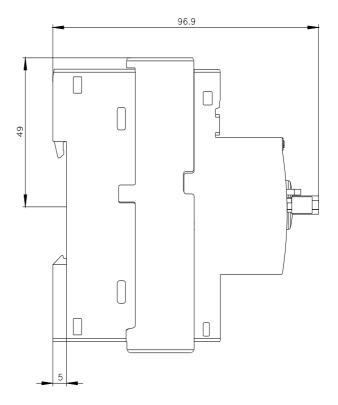
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-4DA10&lang=en

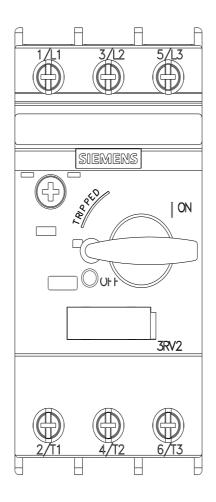
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4DA10/char

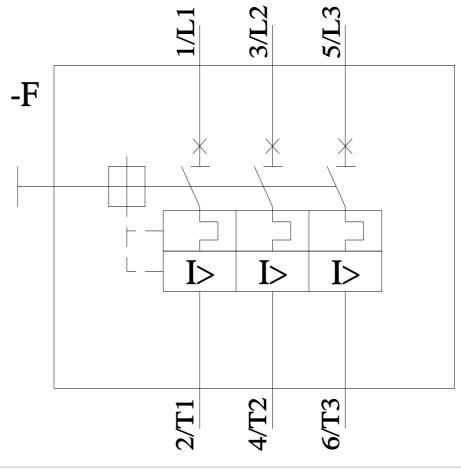
Further characteristics (e.g. electrical endurance, switching frequency)

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