SIEMENS

Data sheet

3RV2023-4BA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 14...20 A N-release 260 A screw terminal Switching capacity 30 kA at 600 V according to UL/CSA

4/12 8/13	
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	13 20 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	20 A
operational current	
• at AC-3 at 400 V rated value	20 A

• at AC-3e at 400 V rated value	20 A
	20 0
operating power • at AC-3	
	15 MM
- at 690 V rated value	15 kW
• at AC-3e	15 MM
— at 690 V rated value	15 kW
operating frequency	15 1/b
at AC-3 maximum	15 1/h 15 1/h
at AC-3e maximum Auxiliary circuit	15 1/h
	0
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	No
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)	4 kA
at AC at 690 V rated value	4 1/4
operating short-circuit current breaking capacity (Ics) at AC	2 4 4
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	20.4
at 480 V rated value at 600 V rated value	20 A
at 600 V rated value	20 A
yielded mechanical performance [hp]	
 for single-phase AC motor — at 110/120 V rated value 	1.5 hp
	1.5 hp
- at 230 V rated value	3 hp
 for 3-phase AC motor — at 200/208 V rated value 	7.5 hp
— at 200/208 V rated value — at 220/230 V rated value	
— at 220/230 V rated value — at 460/480 V rated value	5 hp 10 hp
— at 460/480 V rated value — at 575/600 V rated value	
Short-circuit protection	15 hp
product function short circuit protection	Yes
design of the short-circuit trip	
design of the fuse link for IT network for short-circuit	magnetic
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 		screw-type terminals			
arrangement of electrical connectors circuit	s for main current	Top and bottom			
type of connectable conductor cross	s-sections	_			
 for main contacts 					
— solid or stranded		2x (1 2.5 mm²), 2x (2.5 10 mm²)			
- finely stranded with core en	nd processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
 for AWG cables for main contacts 		2x (16 12), 2x (14 8)			
tightening torque					
 for main contacts with screw-type 	e terminals	2 2.5 N·m			
design of screwdriver shaft		Diameter 5 to 6 mm			
size of the screwdriver tip		Pozidriv size 2	Pozidriv size 2		
design of the thread of the connectio	on screw				
for main contacts		M4			
afety related data					
310 value					
	1 to SN 21020	5 000			
with high demand rate according	10 311 3 1920	5 000			
roportion of dangerous failures	to SN 21020	E0.9/			
with low demand rate according t		50 %			
with high demand rate according	IU SN 31920	50 %			
ailure rate [FIT]					
with low demand rate according t		50 FIT			
1 value for proof test interval or service	-				
protection class IP on the front accor		IP20			
ouch protection on the front accordi	ing to IEC 60529	finger-safe, for vertical conta	ct from the front		
lisplay version for switching status		Handle			
rtificates/ approvals					
		LIIL	CA	EG-Konf.	
Test Certificates	Marine / Shipp	bing			
Test Certificates Type Test Certific- Special Test (ates/Test Report ate				Hovd's Register uts	
Type Test Certific- Special Test (bing BUREAU VERITAS	Railway	Llovds Register us	
<u>Type Test Certific-Special Test (ates/Test Reportate</u>	Certific-	BUREAU	Railway Vibration and Shock	Lloyds us	
<u>Type Test Certific-Special Test (ates/Test Reportate</u>	Certific- Other Other Confirmation Confi	own-russian-business ates. f the EAC certification if you inter	Vibration and Shock		

Connections/ Terminals

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2023-4BA10

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

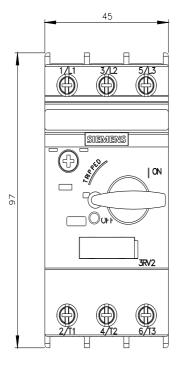
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4BA10

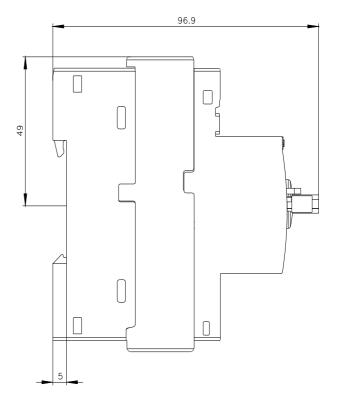
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-4BA10&lang=en

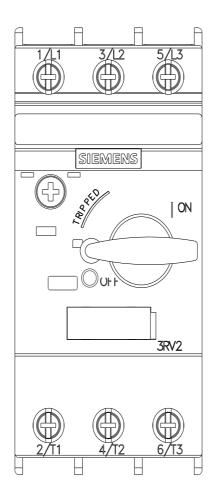
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4BA10/char

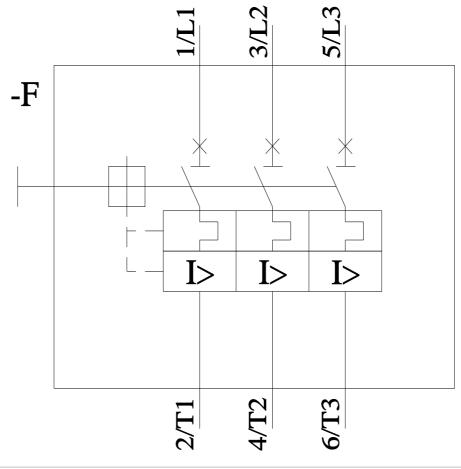
Further characteristics (e.g. electrical endurance, switching frequency)

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9/1/2023 🖸