SIEMENS

Data sheet

3RV2023-4AA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 11...16 A N-release 208 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 	9.25 W					
 at AC in hot operating state per pole 	3.1 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	10 16 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	16 A					
operational current						
• at AC-3 at 400 V rated value	16 A					

• at AC-3e at 400 V rated value	16 A
operating power • at AC-3	
	11 MM
- at 690 V rated value	11 kW
• at AC-3e	11 MM
— at 690 V rated value	11 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 Yes
phase failure detection	Yes CLASS 10
trip class design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
at AC at 690 V rated value	4 kA
• at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC	
operating short-circuit current breaking capacity (ics) at AC o at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	2 KA 208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	16 A
at 480 V rated value at 600 V rated value	16 A
• at 600 v rated value yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	1 hp
— at 110/120 V rated value — at 230 V rated value	2 hp
for 3-phase AC motor	2.10
- at 200/208 V rated value	3 hp
- at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
- at 575/600 V rated value	10 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 40 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

Connections/ Terminals							
type of electrical conr							
 for main current 				screw-type terminals			
arrangement of electr circuit	ical connectors for main	current	Top and	bottom			
type of connectable c	onductor cross-sections	5					
 for main contacts 	3						
— solid or stra	anded		2x (1	2.5 mm²), 2x (2.5 1	0 mm²)		
— finely strand	ded with core end process	sing	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 	s with screw-type terminals	S	2 2.5 N·m				
design of screwdriver	shaft		Diameter 5 to 6 mm				
size of the screwdrive	er tip		Pozidriv size 2				
design of the thread o	of the connection screw						
 for main contacts 	3		M4				
Safety related data							
B10 value							
 with high deman 	d rate according to SN 319	920	5 000				
proportion of dangero	ous failures						
 with low demand 	rate according to SN 319	20	50 %				
 with high deman 	d rate according to SN 319	920	50 %				
failure rate [FIT]							
 with low demand 	rate according to SN 319	20	50 FIT				
T1 value for proof test i 61508	nterval or service life acco	ording to IEC	10 a				
protection class IP on	the front according to I	EC 60529	IP20				
touch protection on th	ne front according to IEC	60529	finger-sa	afe, for vertical contac	t from the front		
display version for swite	ching status		Handle				
Certificates/ approvals							
General Product Approval					Declaration of Conf	ormity	
<u>Confirmation</u>		Ű		EHC	UK CA	C C EG-Konf.	
Test Certificates		Marine / Shipp	ing				
T				CTV2			
Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		BUREAU VERITAS		Lloyd's Register us	
Marine / Shipping		other				Railway	
PRS	RINA	Household and appliances		Confirmation	UDE VDE	Vibration and Shock	
Railway	Environment						
<u>Confirmation</u>	Environmental Con- firmations						

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2023-4AA10}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2023-4AA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4AA10

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

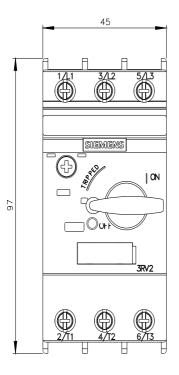
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-4AA10&lang=en

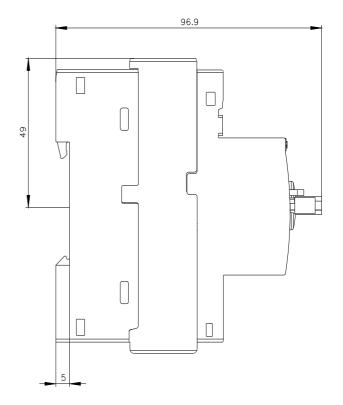
Characteristic: Tripping characteristics, I²t, Let-through current

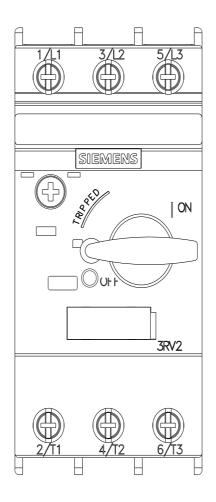
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4AA10/char

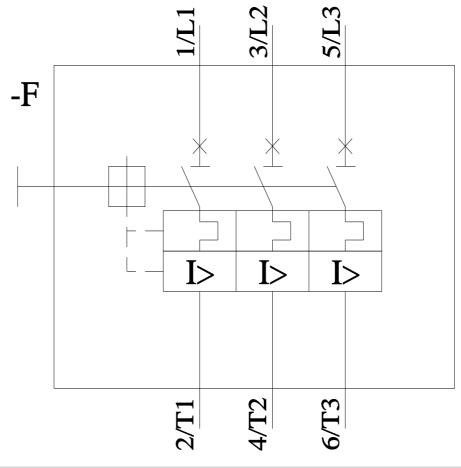
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2023-4AA10&objecttype=14&gridview=view1









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