SIEMENS

Data sheet

3RV2023-1KA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A screw terminal Switching capacity 30 kA at 600 V according to UL/CSA

6/15	
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
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	9 12.5 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	12.5 A
operational current	
• at AC-3 at 400 V rated value	12.5 A
• at AC-3e at 400 V rated value	12.5 A

operating power	
• at AC-3	
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
● at AC-3e maximum	15 1/h
Auxiliary circuit	
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
	unorman
maximum short-circuit current breaking capacity (Icu)	C KA
• at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	163 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	12.5 A
● at 600 V rated value	12.5 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	8 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
Installation/ mounting/ dimensions	indgrietto
	021/
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
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	

Test Certificates	Special Test Certific-			¥ &		
Test Certificates		indinio / onipp	5			
		Marine / Shippi	ina			
	ccc	UL		EG-Konf.	СН	
Confirmation		(h	FAC	CE	UK	
General Product App	proval			Declaration of Conform	iity	
ertificates/ approvals	•					
display version for switching status		Handle				
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
protection class IP on the front according to IEC 60529		EC 60529	IP20			
61508	interval of service life acco		10 a			
	interval or service life acco					
	d rate according to SN 319	120	50 FIT			
failure rate [FIT]	Tate according to SN 31	020	00 /0			
	nd rate according to SN 319		50 %			
	 oroportion of dangerous failures with low demand rate according to SN 31920 		50 %			
	nd rate according to SN 31	920	5 000			
B10 value						
afety related data						
for main contacts			M4			
	of the connection screw					
size of the screwdriver tip		Pozidriv size 2				
design of screwdriver shaft		Diameter 5 to 6 mm				
• • •	s with screw-type terminal	S	2 2.5 N·m			
tightening torque						
 for AWG cables for main contacts 		2x (1 2.5 min), 2x (2.5 6 min), 1x 16 min 2x (16 12), 2x (14 8)				
— finely stranded with core end processing		2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²				
— solid or stranded		2x (1 2.5 mm²), 2x (2.5 10 mm²)				
 for main contact 	S					
type of connectable of	conductor cross-sections	5				
circuit	rical connectors for main	Current	Top and bottom			
	for main current circuit arrangement of electrical connectors for main current		screw-type terminals			
arrangement of election	ppe of electrical connection			screw-type terminals		

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2023-1KA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2023-1KA10

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

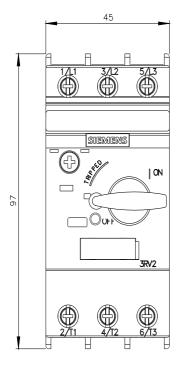
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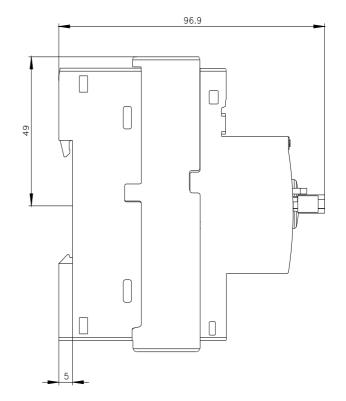
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

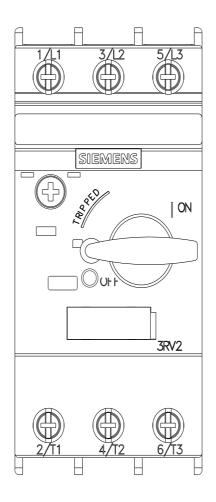
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-1KA10&lang=en Characteristic: Tripping characteristics, I2t, Let-through current

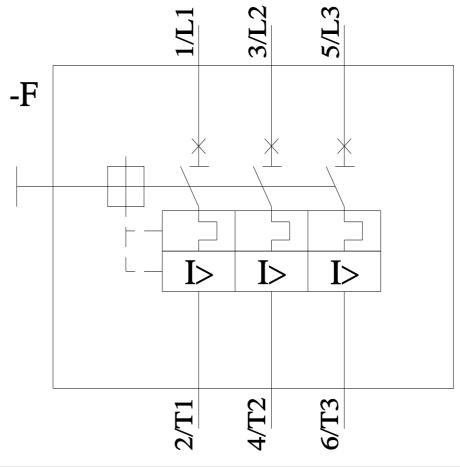
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-1KA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2023-1KA10&objecttype=14&gridview=view1









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