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

SIRIUS
Circuit breaker
For motor protection
3RV2
S0
S00, S0
Yes
10.5 W
3.5 W
690 V
6 kV
25g / 11 ms
100 000
100 000
100 000
Q
10/01/2009
10/01/2009
10/01/2009 2 000 m
2 000 m
2 000 m -20 +60 °C
2 000 m -20 +60 °C -50 +80 °C
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 %
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2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 13 20 A
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 13 20 A
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 13 20 A 20 690 V 690 V
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 13 20 A 20 690 V 690 V 690 V 50 60 Hz
2 000 m -20 +60 °C -50 +80 °C -50 +80 °C 10 95 % 3 13 20 A 20 690 V 690 V 690 V 50 60 Hz

operating power	
• at AC-3	
— at 690 V rated value	15 kW
• at AC-3e	
— at 690 V rated value	15 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
maximum short-circuit current breaking capacity (Icu)	
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (lcs) at AC	
• 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	
at 480 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
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 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 400 V	gG 50 A
• at 500 V	gG 50 A
● at 690 V Installation/ mounting/ dimensions	90 00 /
	221
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 required spacing	97 mm
required spacing	0 mm
 with side-by-side mounting at the side for grounded parts at 690 V 	V IIIIII
	50 mm
— downwards	50 mm
— upwards	50 mm
— at the side	30 mm
• for live parts at 690 V	F0 mm
— downwards	50 mm
— upwards	50 mm
— at the side	30 mm
Connections/ Terminals	

type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
 solid or stranded 	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end 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 terminals 	2 2.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
• for main contacts	M4
Safety related data	
B10 value	
 with high demand rate according to SN 31920 	5 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	

ertificates/ approvals

General Product Approval

Declaration of Conformity

Confirmation











Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate









Marine / Shipping

other

Railway





Confirmation



Vibration and Shock

Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RV2023-4BA10

Cax online generator

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

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

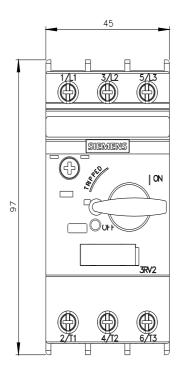
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4BA10

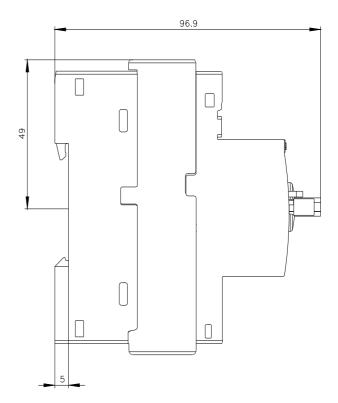
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2023-4BA10&lang=en

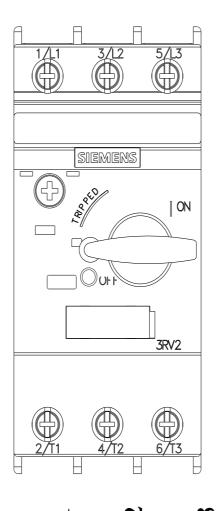
Characteristic: Tripping characteristics, I2t, Let-through current

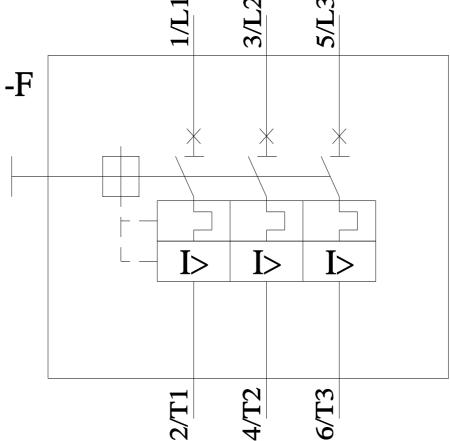
https://support.industry.siemens.com/cs/ww/en/ps/3RV2023-4BA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2023-4BA10&objecttype=14&gridview=view1









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