## **SIEMENS**

Data sheet 3RV2032-4XA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 49...59 A N-release 845 A screw terminal increased switching capacity

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	S2	
size of contactor can be combined company-specific	S2	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	26 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	8.7 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 Sinus	
mechanical service life (operating cycles)		
<ul> <li>of the main contacts typical</li> </ul>	20 000	
of auxiliary contacts typical	20 000	
electrical endurance (operating cycles) typical	20 000	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	03/01/2017	
SVHC substance name	Blei - 7439-92-1	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
<ul> <li>during storage</li> </ul>	-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	49 59 A	
operating voltage		
• rated value	20 690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
at AC-3e rated value maximum	690 V	
operating frequency rated value	50 60 Hz	
operational current rated value	59 A	

operational current	
• at AC-3 at 400 V rated value	59 A
• at AC-3e at 400 V rated value	59 A
operating power	
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
• at AC-3e	30 KW
	15 kW
— at 230 V rated value	
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
<ul> <li>ground fault detection</li> </ul>	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 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	50 kA
at 500 V rated value     at 500 V rated value	5 KA
at 500 V rated value     at 690 V rated value	5 KA 4 kA
	4 KA 845 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings	0 <del>1</del> 0 A
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	59 A
at 600 V rated value	59 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 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	
	none required
protection of the main circuit	none required 160
protection of the main circuit • at 240 V	
<ul><li>protection of the main circuit</li><li>at 240 V</li><li>at 400 V</li></ul>	160
protection of the main circuit  at 240 V  at 400 V  at 500 V	160 125
protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions	160 125 100
protection of the main circuit  at 240 V  at 400 V  at 500 V  at 690 V  Installation/ mounting/ dimensions  mounting position	160 125 100 any
protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method	160 125 100  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
protection of the main circuit  at 240 V  at 400 V  at 500 V  at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method height	160 125 100  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method	160 125 100  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

required spacing		
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm	
<ul> <li>for grounded parts at 400 V</li> </ul>		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 400 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for grounded parts at 500 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 500 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
for grounded parts at 690 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
• for live parts at 690 V		
— downwards	50 mm	
— upwards	50 mm	
— at the side	10 mm	
Connections/ Terminals	10 111111	_
type of electrical connection  • for main current circuit	screw-type terminals	
arrangement of electrical connectors for main current	Top and bottom	
circuit	Top and bottom	
type of connectable conductor cross-sections		
• for main contacts		
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)	
for AWG cables for main contacts	2x (18 2), 1x (18 1)	
tightening torque		
for main contacts with screw-type terminals	3 4.5 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	M6	
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     with high demand rate according to SN 31920	50 %	
failure rate [FIT]	30 //	
with low demand rate according to SN 31920	50 FIT	
	10 a	
T1 value for proof test interval or service life according to IEC 61508	10 α	
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		
		For use in hazard-
General Product Approval		ous locations





<u>KC</u>



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate Type Test Certificates/Test Report



Marine / Shipping







LRS





Household and similar appliances

other

other

Railway

Environment

Confirmation



Confirmation

Vibration and Shock

Environmental Confirmations

## 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4XA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4XA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4XA10

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

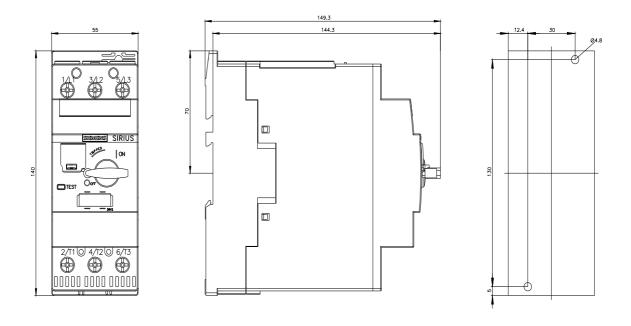
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2032-4XA10&lang=en

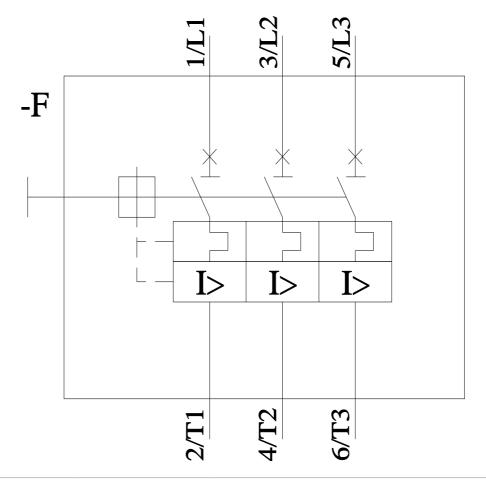
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4XA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4XA10&objecttype=14&gridview=view1





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