## **SIEMENS**

Data sheet 3RV2032-4SA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 9.5...14 A N-release 208 A screw terminal increased switching capacity

	OID!!!O
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>	12.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	4.2 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>	50 000
<ul> <li>of auxiliary contacts typical</li> </ul>	50 000
electrical endurance (operating cycles) typical	50 000
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)	10/15/2014
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
<ul> <li>during transport</li> </ul>	-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	9.5 14 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	14 A

operational current	
at AC-3 at 400 V rated value	14 A
at AC-3e at 400 V rated value	14 A
operating power	
• at AC-3	0.114
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	0.13M
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value — at 690 V rated value	7.5 kW
	11 kW
operating frequency  ● at AC-3 maximum	15 1/h
at AC-3 maximum     at AC-3e maximum	15 1/h
	13 1/11
Protective and monitoring functions	
product function	No
ground fault detection     phase failure detection	No Voc
phase failure detection      trip class	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
	100 KA 100 kA
<ul><li>at AC at 400 V rated value</li><li>at AC at 500 V rated value</li></ul>	18 kA
at AC at 500 V rated value      at AC at 690 V rated value	8 kA
operating short-circuit current breaking capacity (Ics)	O IVA
at AC	
at 240 V rated value	100 kA
• at 400 V rated value	50 kA
at 500 V rated value	10 kA
at 690 V rated value	5 kA
response value current of instantaneous short-circuit trip	208 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	14 A
<ul> <li>at 600 V rated value</li> </ul>	14 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	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 240 V	none required
• at 400 V	100
• at 500 V	80
• at 690 V	63
Installation/ mounting/ dimensions	
	CDV
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
width	55 mm

5 000 50 % 50 % 50 FIT 10 a
50 % 50 %
50 %
50 %
5 000
5 000
M6
I OLIGITY SIZO Z
Pozidriv size 2
3 4.5 N·m Diameter 5 to 6 mm
2 45 N.m
2x (18 2), 1x (18 1)
2x (1 25 mm²), 1x (1 35 mm²)
2x (1 35 mm²), 1x (1 50 mm²)
2 /4 27 22 /4 72 22
Top and bottom
screw-type terminals
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
50
10 mm
50 mm
50 mm
10 mm
50 mm
50 mm
0 mm
149 mm



Confirmation





<u>KC</u>



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 









Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

## Further information

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=3RV2032-4SA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4SA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA10

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

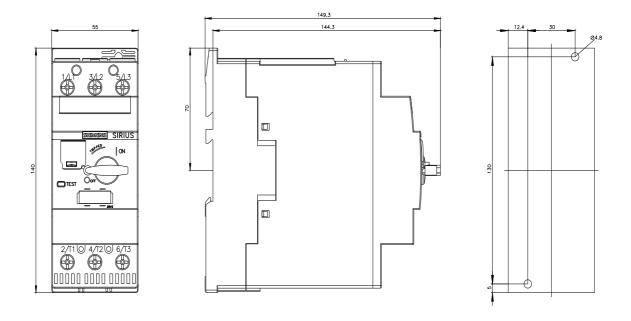
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2032-4SA10&lang=en

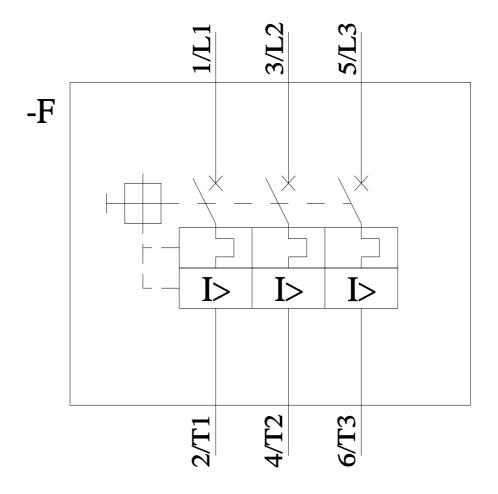
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4SA10&objecttype=14&gridview=view1





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