## **SIEMENS**

Data sheet 3RV2032-4TA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 12...17 A N-release 260 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>	14.5 W
at AC in hot operating state per pole	4.8 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
of auxiliary contacts typical	50 000
electrical endurance (operating cycles) typical	50 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Lead - 7439-92-1
Weight	1.139 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Environmental footprint	
global warming potential [CO2 eq] total	239.877 kg
global warming potential [CO2 eq] during manufacturing	12.8 kg
global warming potential [CO2 eq] during sales	0.477 kg
global warming potential [CO2 eq] during operation	230 kg
global warming potential [CO2 eq] after end of life	-3.4 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	

number of poles for main current circuit	3
number of poles for main current circuit	3 12 17 A
adjustable current response value current of the current- dependent overload release	12 17 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	17 A
operational current	
at AC-3 at 400 V rated value	17 A
at AC-3e at 400 V rated value	17 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
• at AC-3e	io kii
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
operating frequency	10 MI
• at AC-3 maximum	15 1/h
at AC-3 maximum     at AC-3e maximum	15 1/h
Protective and monitoring functions	10 1/11
product function	
•	No
ground fault detection     phase failure detection	Yes
phase failure detection  trip class	
trip class	CLASS 10
design of the overload release maximum short-circuit current breaking capacity (Icu)	thermal
• at AC at 240 V rated value	100 kA
at AC at 240 V rated value     at AC at 400 V rated value	100 kA
at AC at 400 V rated value     at AC at 500 V rated value	18 kA
at AC at 690 V rated value     at AC at 690 V rated value	8 kA
operating short-circuit current breaking capacity (Ics) at AC	O KA
	100 kA
at 240 V rated value	100 kA
at 400 V rated value     at 500 V rated value	50 kA
at 500 V rated value	10 kA
at 690 V rated value  response value surrent of instantaneous short sirguit trip unit	5 kA
response value current of instantaneous short-circuit trip unit	260 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	47.4
at 480 V rated value	17 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
• for single-phase AC motor	45ha
— 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	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
. ===(0.001:	15 hp
— at 575/600 V rated value	
Short-circuit protection	
Short-circuit protection product function short circuit protection	Yes
Short-circuit protection  product function short circuit protection  design of the short-circuit trip	Yes magnetic
Short-circuit protection product function short circuit protection	

● at 240 V	none required
• at 400 V	100
• at 500 V	80
• at 690 V	63
Installation/ mounting/ dimensions	
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
depth	149 mm
required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	<b>~</b>
— 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	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
• for main contacts	0 (4 05 2) 4 (4 50 2)
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
for AWG cables for main contacts	2x (18 2), 1x (18 1)
tightening torque	2 45 Nrm
for main contacts with screw-type terminals  design of screwdriver shoft	3 4.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm  Pozidriv size 2
size of the screwdriver tip	POZIGITV SIZE Z
design of the thread of the connection screw  • for main contacts	M6
• for main contacts Safety related data	IVIO
	Yes
product function suitable for safety function	1 CS
suitability for use	No
safety-related switching on	No Voe
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures  • with low demand rate according to SN 31920	
	40 %

<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

**Test Certificates** 

Marine / Shipping









Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Confirmation

other

other

Railway

**Environment** 

Miscellaneous



Special Test Certificate

Confirmation



Siemens EcoTech



Environment

Environmental Confirmations

## 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=3RV2032-4TA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4TA10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10

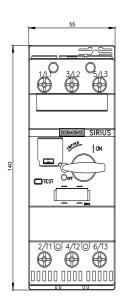
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RV2032-4TA10&lang=en

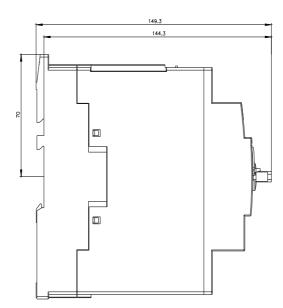
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

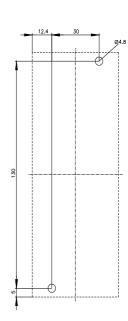
https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10/char

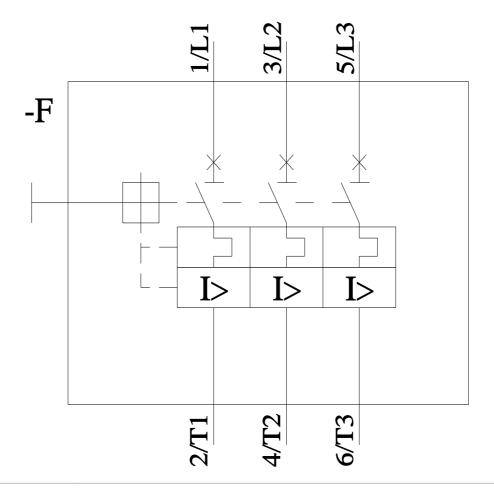
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4TA10&objecttype=14&gridview=view1









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