## SIEMENS

## Data sheet

## 3RV2032-4BA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 14...20 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
<ul> <li>at AC in hot operating state per pole</li> </ul>	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
<ul> <li>of auxiliary contacts typical</li> </ul>	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 Lead titanium zirconium oxide - 12626-81-2
Weight	1.134 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
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
adjustable current response value current of the current-	3 14 20 A
dependent overload release	
type of voltage for main current circuit	AC
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	20 A
operational current	
• at AC-3 at 400 V rated value	20 A
at AC-3e at 400 V rated value	20 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— 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	
type of voltage for auxiliary and control circuit	AC/DC
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	
<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 (lcu)	
• 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	18 kA
• at AC at 690 V rated value	8 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	10 kA
• at 690 V rated value	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	
• 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
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— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 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	
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
<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— 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
<ul> <li>for grounded parts at 690 V</li> </ul>	
— 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	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>— solid of stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )
for AWG cables for main contacts	2x (1 25 mm <sup>-</sup> ), 1x (1 35 mm <sup>-</sup> ) 2x (18 2), 1x (18 1)
tightening torque	$2 \wedge (10 \dots 2), 1 \wedge (10 \dots 1)$
<ul> <li>for main contacts with screw-type terminals</li> </ul>	3 4.5 N·m
tor main contacts with screw-type terminals     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	Me
for main contacts      Sofety related data	M6
Safety related data	

product function suitabl	le for safety function		Yes		
suitability for use					
<ul> <li>safety-related sw</li> </ul>	vitching on		No		
<ul> <li>safety-related sw</li> </ul>	vitching OFF		Yes		
service life maximum			10 a		
test wear-related serv	vice life necessary		Yes		
proportion of dangero	ous failures				
<ul> <li>with low demand</li> </ul>	I rate according to SN 31	920	40 %		
<ul> <li>with high deman</li> </ul>	d rate according to SN 3	1920	50 %		
B10 value with high d	emand rate according	to SN 31920	5 000		
31920	low demand rate accor	ding to SN	50 FIT		
ISO 13849					
device type according			3		
	cording to ISO 13849-2	necessary	Yes		
IEC 61508					
	cording to IEC 61508-2		Туре А		
<ul> <li>for proof test inte 61508</li> <li>Electrical Safety</li> </ul>	erval or service life accord	ding to IEC	10 a		
•	the front according to	IEC 60529	IP20		
•	he front according to IE		finger-safe, for vertical con	tact from the front	
isplay		0 00323	inger-sale, for vertical con		
	abian atatua		Llandla		
display version for swite	ching status		Handle		
pprovals Certificates					
	CE EG-Konf.	UK CA		<u>KC</u>	EHC
(UCC)	CE EG-Konf.	UK CA		KC	EHC
General Product Approval	EG-Konf.	Сн	Test Certificates	KC	<b>Marine / Shipping</b>
General Product Ap-		Сн	UL		
General Product Approval	For use in hazardou	Сн	UL Test Certificates <u>Type Test Certific</u>	<u>- Special Test Certific</u>	
General Product Approval	For use in hazardou	Сн	UL Test Certificates <u>Type Test Certific</u>	<u>- Special Test Certific</u>	ABS
General Product Approval BIS CRS Marine / Shipping	For use in hazardou	s locations	UL Test Certificates <u>Type Test Certific</u>	<u>- Special Test Certific</u>	ABS
General Product Approval BIS CRS Marine / Shipping	For use in hazardou	s locations	UL Test Certificates Type Test Certific ates/Test Report PRS	Special Test Certific ate	ABS
General Product Approval BIS CRS Marine / Shipping	For use in hazardou	s locations s locations	UL Test Certificates Type Test Certific ates/Test Report PRS	Special Test Certific ate	to ther Miscellaneous Siemens
General Product Approval BIS CRS Marine / Shipping Warine / Shipping Confirmation	For use in hazardou	s locations s locations	UL Test Certificates Type Test Certific ates/Test Report PRS	Special Test Certific ate	other Miscellaneous

## 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=3RV2032-4BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4BA10

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

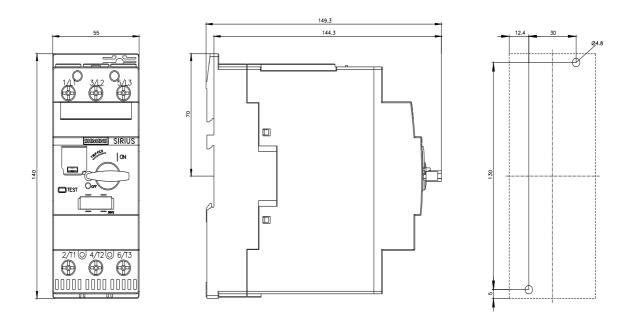
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2032-4BA10&lang=en

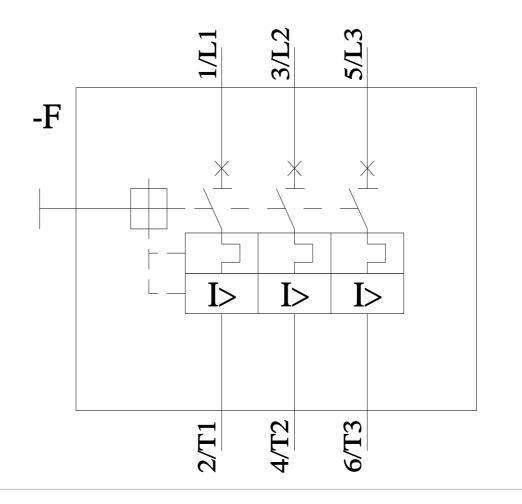
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4BA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4BA10&objecttype=14&gridview=view1





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