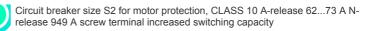
SIEMENS

Data sheet

3RV2032-4KA10





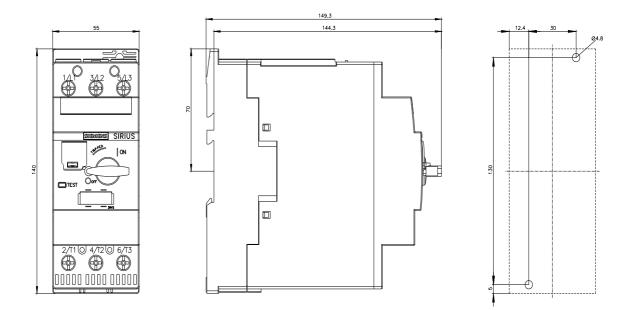


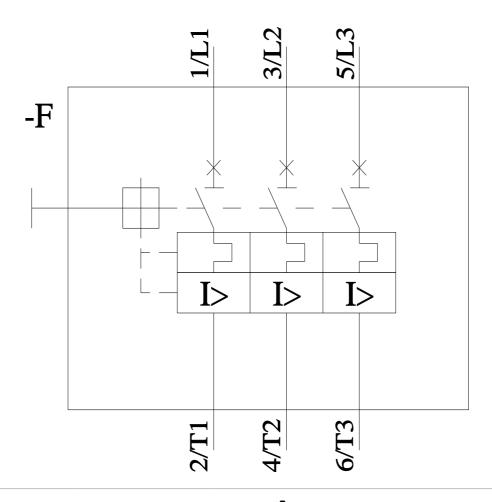
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	\$2		
size of contactor can be combined company-specific	S2		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	29.5 W		
 at AC in hot operating state per pole 	9.8 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)			
 of the main contacts typical 	20 000		
 of auxiliary contacts typical 	20 000		
electrical endurance (operating cycles) typical	20 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	03/01/2017		
SVHC substance name	Lead - 7439-92-1		
Weight	1.17 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			
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- dependent overload release	62 73 A
operating voltage	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	73 A
•	137
operational current	70.4
at AC-3 at 400 V rated value	73 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
operating frequency	
• at AC-3 maximum	15 1/h
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)	u u u u u
	100 //4
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 	8 kA
 at 690 V rated value 	4 kA
response value current of instantaneous short-circuit trip unit	949 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
 at 600 V rated value 	62 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
- at 200/208 V rated value	20 hp
- at 220/200 V rated value	25 hp
- at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 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	160
• at 500 V	125
• at 690 V	100
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
norgin	55 mm
width	
width	
width depth required spacing	149 mm

 with side-by-side mounting at the side 	
with side by side mounting at the side	0 mm
 for grounded parts at 400 V 	
— 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 	
— 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	
 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
size of the screwdriver tip design of the thread of the connection screw	Pozidriv size 2
	Pozidriv size 2 M6
design of the thread of the connection screw	
design of the thread of the connection screwfor main contacts	
design of the thread of the connection screw • for main contacts Safety related data	M6
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function	M6
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use Suitability for use	M6 Yes
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on	M6 Yes No
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF	M6 Yes No Yes
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum	M6 Yes No Yes 10 a
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary	M6 Yes No Yes 10 a
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	M6 Yes No Yes 10 a Yes
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920	M6 Yes No Yes 10 a Yes 40 %
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	M6 Yes No Yes 10 a Yes 40 % 50 %
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 ISO 13849	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes
design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2	M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes

61508						
Electrical Safety						
protection class IP on	the front according to	IEC 60529 IP20)			
touch protection on the front according to IEC 60529		EC 60529 finge	er-safe, for vertical contact	from the front		
Display						
display version for switching status			dle			
pprovals Certificates						
General Product Appr	oval					
	C C EG-Konf.	UK CA	Confirmation		KC	
General Product Approval	For use in hazardou	s locations	Test Certificates		Marine / Shipping	
EHC	IECEx	KEX ATEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
B UREAU VERITAS		Lloyd's Register urs	PRS	RINA	<u>Miscellaneous</u>	
other		Railway		Environment		
<u>Confirmation</u>	VDE	Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						
Environmental Con- firmations						
urther information						
Information on the pac	kaging	viow/100842875				
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https://support.industry.s Image database (produ		p <u>s/3RV2032-4KA10</u> sion drawings, 3D models	s, device circuit diagram	s, EPLAN macros)		
http://www.automation.s	iemens.com/bilddb/cax	de.aspx?mlfb=3RV2032-				
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