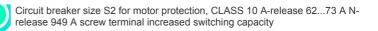
## SIEMENS

## Data sheet

## 3RV2032-4KA10





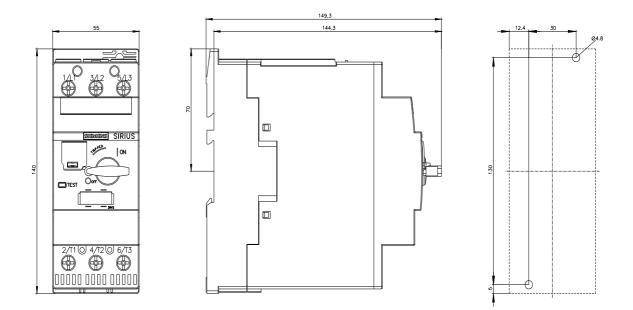


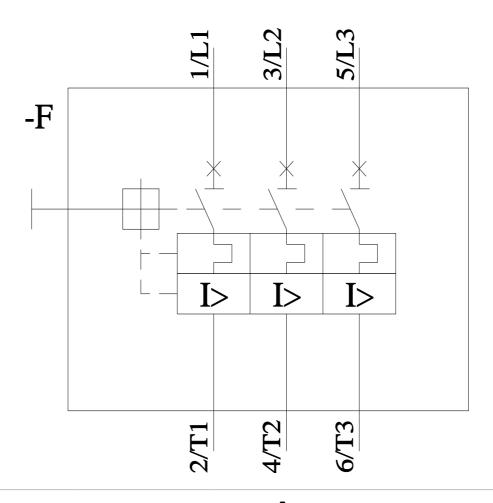
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	\$2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	29.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	20 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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-	62 73 A
dependent overload release	
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	73 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	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
	45 KW
— at 690 V rated value	55 KVV
operating frequency	
• at AC-3 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 (lcs) 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 220/230 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
width	55 mm
depth	149 mm
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
<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
• 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	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid or stranded	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
<ul><li>finely stranded with core end processing</li><li>for AWG cables for main contacts</li></ul>	
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>tightening torque</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1)
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
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<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> </ul> </li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm
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<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> </ul> </li> <li>design of the thread of the connection screw         <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <ul> <li>product function suitable for safety function</li> </ul> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <ul> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures                <ul> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Slute with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li></ul></li></ul></ul>	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3
<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> </ul> </li> <li>design of the thread of the connection screw         <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <ul> <li>product function suitable for safety function</li> </ul> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures                 <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li> <li>protessary</li></ul></li></ul></ul>	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3
<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque         <ul> <li>for main contacts with screw-type terminals</li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw                 <ul> <li>for main contacts</li> </ul> </li> </ul> </li> <li>design of the thread of the connection screw         <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <ul> <li>product function suitable for safety function</li> </ul> <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> </ul> <ul> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures                <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li></ul></li></ul></ul>	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes
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