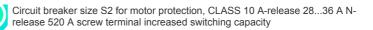
SIEMENS

Data sheet

3RV2032-4PA10







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	
 at AC in hot operating state 	20 W
 at AC in hot operating state per pole 	6.7 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 	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	1.133 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	28 36 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	36 A
operational current	
 at AC-3 at 400 V rated value 	36 A
 at AC-3e at 400 V rated value 	36 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
• at AC-3e	
at AC-se — at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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 (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 	15 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	520 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	36 A
at 600 V rated value	36 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
	7.0 Hp
for 3-phase AC motor at 200/208 V rated value	15 bp
- at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
	30 hp
- at 460/480 V rated value	10 hz
— at 575/600 V rated value	40 hp
— at 575/600 V rated value Short-circuit protection	
at 575/600 V rated value Short-circuit protection product function short circuit protection	40 hp Yes
at 575/600 V rated value Short-circuit protection product function short circuit protection	Yes

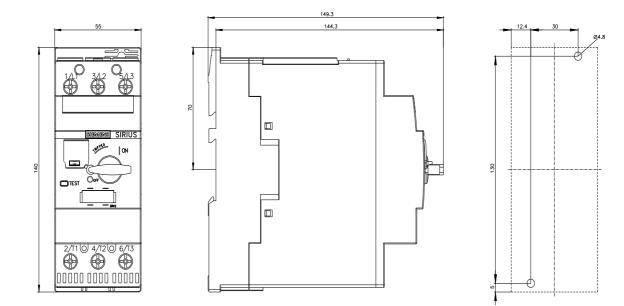
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• at 500 V 100 • at 690 V 80 Installation/mounting/climensions any festening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 140 mm width 55 mm depth 149 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 50 mm - downwards 50 mm - at the side 10 mm • for grounded parts at 400 V 50 mm - at worwards 50 mm - at the side 10 mm • for grounded parts at 500 V 60 mm - downwards 50 mm - advmards 50 mm <	EN 60715
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— at the side 10 mm Connections/Terminals Image: Second Stress S	
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• for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
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 mm ²), 1x (1 50 mm ²)	
- finely stranded with core end processing 2x (1 25 mm ²), 1x (1 35 mm ²)	
• 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 Pozidriv size 2 design of the thread of the connection screw Image: Connection screw	
for main contacts M6	
Safety related data	
product function suitable for safety function Yes	
suitability for use	
safety-related switching on No	
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 %	

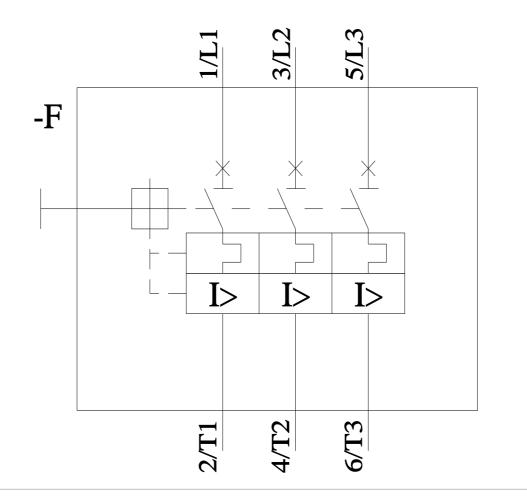
 with high demand rate according to SN 31920 	50 %		
B10 value with high demand rate according to SN 31920	5 000		
failure rate [FIT] with low demand rate according to SN 31920	50 FIT		
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Туре А		
T1 value	10 0		
 for proof test interval or service life according to IEC 61508 	10 a		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529 Display	finger-safe, for vertical conta	act from the front	
display version for switching status	Handle		
Approvals Certificates	Handio		
General Product Approval			
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CCC EG-Konf.	.н	UL	
General Product Approval For use in hazardous locations	Test Certificates		Marine / Shipping
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4PA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4PA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4PA10&objecttype=14&gridview=view1





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