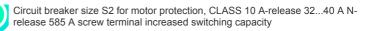
SIEMENS

Data sheet

3RV2032-4UA10







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	1.149 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	32 40 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	40 A
operational current	
 at AC-3 at 400 V rated value 	40 A
 at AC-3e at 400 V rated value 	40 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	37 kW
• at AC-3e	
 at AC-se — at 230 V rated value 	11 kW
— at 230 V rated value — at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 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	585 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	40 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
 for 3-phase AC motor 	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
- at 575/600 V rated value	40 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	
design of the fuse link for IT network for short-circuit	magnetic
protection of the main circuit	

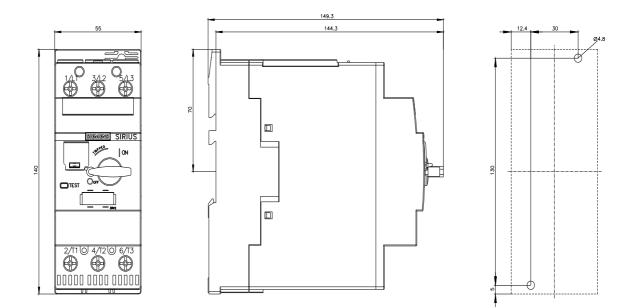
 e1 240 V e1 240 V e1 400 V e1 500 V<	EN 60715
• at 500 V 100 • at 690 V 80 Installation/mounting/climensions any festening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 140 mm width 55 mm depth 149 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • 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
	EN 60715
Installation/ mounting/ dimensions mounting position any festening method screw and snap-on mounting onto 35 mm DIN rail according to DIN height 140 nm width 55 mm dopth 149 nm required spacing 0 mm • vith side-by-side mounting at the side 0 mm • for grounded parts at 400 V - downwards - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 400 V - - downwards 50 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - athe s	EN 60715
mounting position 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 • for grounded parts at 400 V 0 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - dornwards 50 mm - upwards 50 mm	EN 60715
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 — upwards 50 mm — at the side 10 mm • for live parts at 400 V - — downwards 50 mm — upwards 50 mm — downwards 50 mm — upwards 50 mm — downwards 50 mm — upwards 50 mm	EN 60715
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 - downwards - upwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 500 V - downwards - at the side 10 mm • for grounded parts at 500 V - downwards - at the side 10 mm • for grounded parts at 500 V - downwards - at the side 10 mm • for live parts at 500 V - downwards - upwards 50 mm - upwards 50 mm <t< td=""><td></td></t<>	
depth 149 mm required spacing 0 mm • 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 grounded parts at 400 V - - at the side 10 mm • of the parts at 400 V - - at the side 10 mm • of grounded parts at 500 V - - downwards 50 mm - at the side 10 mm • of grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 m	
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 - upwards 50 mm - at the side 10 mm • for live parts at 400 V - - downwards 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 500 V - - at the side 10 mm • for grounded parts at 500 V - - at the side 10 mm • for grounded parts at 500 V - - at the side 10 mm • for live parts at 500 V - - at the side 10 mm • for live parts at 500 V - - at the side 10 mm • for grounded parts at 690 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 690 V - - downwards 50 mm	
• with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 400 V - - downwards 50 mm - downwards 50 mm - upwards 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 grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 690 V - - downwards 50 mm - at the side 10 mm	
- downwards50 mm- upwards50 mm- at the side10 mm• for live parts at 400 V downwards50 mm- upwards50 mm- at the side10 mm- at the side10 mm- at the side10 mm- at the side10 mm- at the side50 mm- upwards50 mm- at the side10 mm- at the side50 mm- at the side10 mm- at the side50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm- at the side10 mm- at the side10 mm- at the side50 mm- upwards50 mm- at the side10 mm </td <td></td>	
upwards50 mm at the side10 mm• for live parts at 400 V downwards50 mm upwards50 mm at the side10 mm• for grounded parts at 500 V downwards50 mm upwards50 mm upwards50 mm upwards50 mm upwards50 mm upwards50 mm at the side10 mm• for live parts at 500 V downwards50 mm upwards50 mm upwards50 mm at the side10 mm• for grounded parts at 690 V downwards50 mm at the side10 mm• for live parts at 690 V at the side10 mm at t	
at the side10 mm• for live parts at 400 V50 mm downwards50 mm upwards50 mm at the side10 mm• for grounded parts at 500 V downwards50 mm upwards50 mm upwards50 mm at the side10 mm at the side10 mm at the side10 mm at the side10 mm downwards50 mm at the side10 mm at the side10 mm downwards50 mm upwards50 mm at the side10 mm at the side10 mm at the side10 mm at the side10 mm downwards50 mm upwards50 mm upwards50 mm at the side10 mm at the side <td></td>	
• for live parts at 400 V	
- downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 500 V downwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 500 V downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for numerations50 mm- at the side10 mm• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals	
upwards50 mm at the side10 mm• for grounded parts at 500 V50 mm downwards50 mm upwards50 mm at the side10 mm• for live parts at 500 V at the side10 mm• for live parts at 500 V downwards50 mm upwards50 mm upwards50 mm upwards50 mm upwards50 mm at the side10 mm• for grounded parts at 690 V downwards50 mm upwards50 mm at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for main current circuitscrew-type terminals at the side10 mm• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals	
at the side10 mm at the side10 mm downwards50 mm upwards50 mm at the side10 mm at the side10 mm at the side10 mm at the side10 mm downwards50 mm downwards50 mm upwards50 mm upwards50 mm at the side10 mm at the side10 mm downwards50 mm at the side10 mm downwards50 mm upwards50 mm at the side10 mm downwards50 mm upwards50 mm at the side10 mm of rive parts at 690 V	
 for grounded parts at 500 V downwards upwards upwards at the side 10 mm for live parts at 500 V downwards for mix upwards for mix upwards 50 mm upwards 50 mm upwards 50 mm upwards for grounded parts at 690 V downwards for grounded parts at 690 V downwards for grounded parts at 690 V at the side 10 mm for live parts at 690 V at the side 10 mm for live parts at 690 V at the side 10 mm for live parts at 690 V at the side 10 mm for live parts at 690 V at the side 10 mm for live parts at 690 V at the side 10 mm for live parts at 690 V at the side the side 	
- downwards50 mm- upwards50 mm- at the side10 mm• for live parts at 500 V downwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm- at the side10 mm	
- upwards50 mm- at the side10 mm• for live parts at 500 V downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for live parts at 690 V at the side10 mm• for main current circuitscrew-type terminalstype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottom	
at the side10 mm• for live parts at 500 V downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V at the side50 mm- at the side10 mm• for live parts at 690 V at the side10 mm• for nive parts at 690 V at the side10 mm• for nive parts at 690 V at the side10 mm- at the side10 mm• for main current circuitscrew-type terminalstype of electrical connectors for main currentTop and bottom	
• for live parts at 500 V50 mm- downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- downwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V at the side50 mm- at the side50 mm- at the side50 mm- downwards50 mm- at the side10 mm• for live parts at 690 V at the side10 mm- at the side10 mm- at the side10 mm- at the side50 mm- at the side10 mmConnections/ Terminals50 mm• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottom	
- downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V50 mm- downwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm- downwards50 mm- at the side10 mm- the side10 mm- at the side10 mm- at the side50 mm- at the side50 mm- at the side50 mm- at the side10 mm	
- at the side10 mm• for grounded parts at 690 V50 mm- downwards50 mm- upwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm• for live parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V at the side50 mm- at the side50 mm- upwards50 mm- at the side10 mmConnections/Terminals10 mmtype of electrical connection • for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottom	
• for grounded parts at 690 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 690 V - - downwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm Connections/ Terminals 50 mm type of electrical connection screw-type terminals • for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
- downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 690 V - - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm Connections/ Terminals 10 mm type of electrical connection screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
upwards50 mm at the side10 mm• for live parts at 690 V downwards50 mm upwards50 mm upwards50 mm at the side10 mmConnections/ Terminalstype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottom	
at the side 10 mm • for live parts at 690 V - downwards 50 mm upwards 50 mm at the side 10 mm Connections/ Terminals 10 mm type of electrical connection • for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
for live parts at 690 V — downwards 50 mm — upwards 50 mm — at the side 10 mm Connections/Terminals type of electrical connection e for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
- 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 circuit Top and bottom	
— at the side 10 mm Connections/Terminals Image: Second Stress S	
Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit Top and bottom	
type of electrical connection screw-type terminals • for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom	
• 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 %	

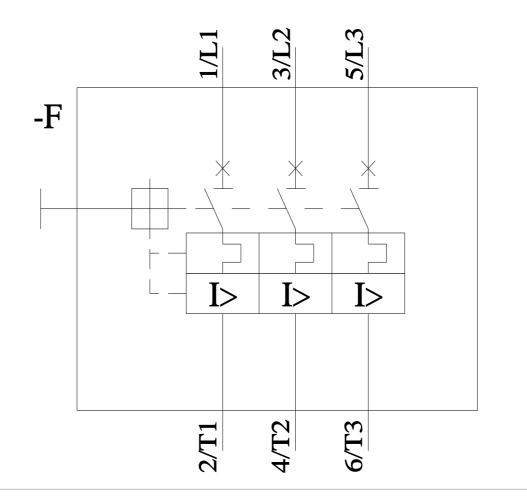
with high demand rate according to SN 319 B10 value with high demand rate according to					
failure rate [FIT] with low demand rate according to 31920					
ISO 13849	_				
device type according to ISO 13849-1		3			
overdimensioning according to ISO 13849-2 ne					
IEC 61508					
safety device type according to IEC 61508-2		e A			
T1 value or proof test interval or service life according to IEC		10 a			
61508					
Electrical Safety		<u>,</u>			
protection class IP on the front according to IE touch protection on the front according to IEC		er-safe, for vertical contact	from the front		
Display	inge		from the from		
display version for switching status	Han	dle			
Approvals Certificates					
General Product Approval					
	UK	Confirmation	Ē	KC	
CCC EG-Konf.	UK CA				
General Product Approval	locations	Test Certificates		Marine / Shipping	
	IECEX	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping				other	
	Lloyd's Register uis	PRS	RINA	<u>Miscellaneous</u>	
other	Railway		Environment		
	Kunnay		Linvironment		
Confirmation	Special Test Certific- ate	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment					
Environmental Con- firmations					
Eurthor information					
Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/vie Information- and Downloadcenter (Catalogs, B https://www.siemens.com/ic10 Industry Mall (Online ordering system)	rochures,)				
https://mall.industry.siemens.com/mall/en/en/Cata Cax online generator	llog/product?mlfb=3RV2	032-4UA10			

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4UA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4UA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4UA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4UA10/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4UA10&objecttype=14&gridview=view1





last modified:

11/6/2024 🖸