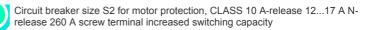
SIEMENS

Data sheet

3RV2032-4TA10







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 	14.5 W
 at AC in hot operating state per pole 	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)	
 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	1.139 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	12 17 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	17 A
operational current	
at AC-3 at 400 V rated value	17 A
• at AC-3e at 400 V rated value	17 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 kW
• at AC-3e	
at AC-se — at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	15 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	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	17 A
at 600 V rated value	17 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	5 hp
— at 220/200 V rated value	7.5 hp
- at 460/480 V rated value	15 hp
- at 575/600 V rated value	15 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	

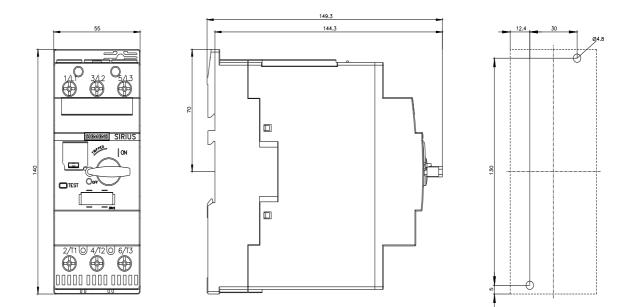
		none required	• at 240 V
• at 500 V 80 • at 600 V 63 mounting position any fastening method sorew and snape-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm with 65 mm depth 149 mm required spacing 0 mm • with disch-yside mounting at the side 0 mm • for grounded parts at 400 V - - downwards 50 mm - at the side 10 mm • for grounded parts at 400 V - - downwards 50 mm - at the side 10 mm • for grounded parts at 500 V - - 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 - upwards 50 mm - at the side 10 mm • for grounded parts at 600 V - - downwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 600 V - - downwards 50 mm - at the side 10 mm			
• at 680 V 63 Installation mounting possibility any fastering method serve and snap-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm with 65 mm depth 149 mm required spacing • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V - downwards 50 mm - upwards 50 mm<			
Installation/ mounting volume is one of the source of the sourc			
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm width 65 mm depth 149 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • of or grounded parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for loc parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm			
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width 55 mm depth 149 mm required spacing 0 mm • for grounded parts at 400 V 0 mm - downwards 50 mm - utwards 50 mm -	EN 60715	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 6071	fastening method
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			required spacing
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			 for grounded parts at 400 V
at the side 10 mm • for live parts at 400 V			— downwards
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design of the thread of the connection screw • for main contacts M6			
for main contacts M6		I ULIUITY JILG L	
		M6	
Satety related data			Safety related data
product function suitable for safety function Yes		Yes	
suitability for use			
safety-related switching on No		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 %		40 %	

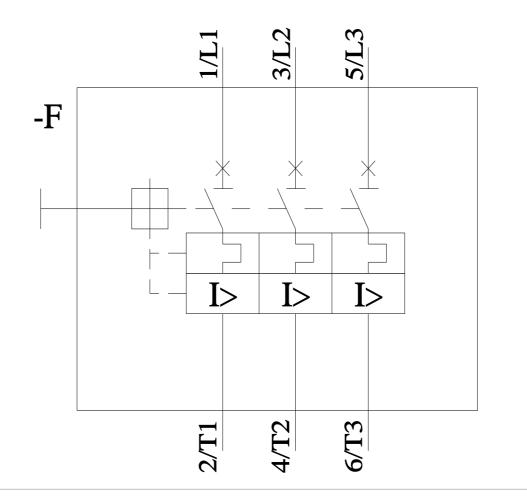
 with high demand 	d rate according to SN 31	1920	50 %			
B10 value with high d	emand rate according t	o SN 31920	5 000			
failure rate [FIT] with I 31920	low demand rate accord	ding to SN	50 FIT			
ISO 13849						
device type according	g to ISO 13849-1		3			
	cording to ISO 13849-2	necessary	Yes			
IEC 61508						
safety device type according to IEC 61508-2			Туре А			
T1 value						
 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		finger-safe, for vertical contac	t from the front			
Display						
display version for swite	ching status		Handle			
Approvals Certificates						
General Product App	roval					
(m)	((<u>Confirmatio</u>	° UK CA	ŝ	KC	
<u>m</u>			ZÔ	(ND)		
ccc	EG-Konf.		СН	UL		
General Product Ap- proval	For use in hazardous	s locations	Test Certificates		Marine / Shipping	
provar						
			Type Test Certific-	Special Test Certific-	Start Say	
FHI	IECE×	(F [*])	ates/Test Report	ate		
EUL	•				a succession	
	IECEx	ATEX			ABS	
Marina / Shinning					othor	
Marine / Shipping					other	
Marine / Shipping	8.8		æ		other Confirmation	
Marine / Shipping	ĴÅ	Lloyds	6			
Marine / Shipping	1Å DNV	Register	٢			
Marine / Shipping			PRS	RINA		
Marine / Shipping		Register	PRS	RINA		
Marine / Shipping		Register	PRS	RINA Environment		
BUREAU VERITAS		Railway	PRS			
BUREAU		Railway Special Test Ce	PFS PFS		Confirmation	
BUREAU VERITAS		Railway	ettific- Confirmation		Confirmation	
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4TA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4TA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4TA10&objecttype=14&gridview=view1





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