SIEMENS

Data sheet

3RV2032-4SA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 9.5...14 A N-release 208 A screw terminal increased switching capacity

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 	12.5 W				
 at AC in hot operating state per pole 	4.2 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 (switching cycles)					
 of the main contacts typical 	50 000				
 of auxiliary contacts typical 	50 000				
electrical endurance (switching cycles) typical	50 000				
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD				
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	10/15/2014				
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 %				
Main circuit					
number of poles for main current circuit	3				
adjustable current response value current of the current-dependent overload release	9.5 14 A				
operating voltage					
 rated value 	20 690 V				
 at AC-3 rated value maximum 	690 V				
 at AC-3e rated value maximum 	690 V				

energing frequency rated value	50 60 Hz
operating frequency rated value	
operational current rated value	14 A
operational current • at AC-3 at 400 V rated value	14 A
 at AC-3 at 400 V rated value at AC-3e at 400 V rated value 	14 A 14 A
	14 A
• at AC-3	
- at 230 V rated value	3 kW
— at 400 V rated value — at 500 V rated value	5.5 kW 7.5 kW
— at 600 V rated value	7.5 KW 11 kW
• at AC-3e	
 at AC-se — at 230 V rated value 	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
	7.5 KW 11 kW
— at 690 V rated value	
 operating frequency at AC-3 maximum 	15 1/b
 at AC-3 maximum at AC-3e maximum 	15 1/h 15 1/h
Protective and monitoring functions	
product function	No
ground fault detection	No Yes
phase failure detection	
trip class	CLASS 10
design of the overload release	thermal
 breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 	100 kA
 at AC at 240 V rated value at AC at 400 V rated value 	100 KA
	18 kA
at AC at 500 V rated value	8 kA
at AC at 690 V rated value breaking capacity operating short-circuit current (Ics)	0 KA
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	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	14 A
 at 600 V rated value 	14 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 220/230 V rated value	5 hp
— at 460/480 V rated value	10 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	
• at 240 V	none required
• at 400 V	100
• at 500 V	80
• at 690 V	63

Installation/ mounting/ dimensions				
mounting position	any			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
height	140 mm			
width	55 mm			
depth	149 mm			
required spacing				
 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	50 mm			
— downwards	50 mm 50 mm			
— upwards — at the side	50 mm 10 mm			
- at the side Connections/ Terminals				
type of electrical connection	scrow type terminals			
for main current circuit arrangement of electrical connectors for main current circuit	Screw-type terminals Top and bottom			
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 mm ²), 1x (1 35 mm ²)			
 at 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			
design of the thread of the connection screw				
 for main contacts 	M6			
Safety related data				
B10 value				
 with high demand rate according to SN 31920 	5 000			
proportion of dangerous failures				
• with low demand rate according to SN 31920	50 %			
• with high demand rate according to SN 31920	50 %			
failure rate [FIT]				
 with low demand rate according to SN 31920 	50 FIT			
T1 value for proof test interval or service life according to IEC 61508	10 у			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			

display version for sw	vitching status	Han	dle		
Certificates/ approval	s				
General Product Ap	oproval				
	<u>Confirmation</u>	CCC		KC	EHC
For use in hazardou	us locations	Declaration of Con	formity	Test Certificates	
ATEX	IECE×	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	B UREAU VERITAS		Llovd's Register uts	PRS	RINA
Marine / Shipping	other		Railway		
RARS	<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</u>	
Further information					
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4SA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4SA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4SA10⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current					

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4SA10&objecttype=14&gridview=view1

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