SIEMENS

Data sheet

3RV2032-4SA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 9.5...14 A N-release 208 A screw terminal increased switching capacity with transverse auxiliary switches 1 NO+1 NC

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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature during transport 	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the	9.5 14 A



current-dependent overload release	-
	200.1/
operating voltage rated value	690 V
operating voltage at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	14 A
operational current at AC-3 at 400 V rated value	14 A
operating power at AC-3	
• at 230 V rated value	3 000 W
 at 400 V rated value 	5 500 W
• at 500 V rated value	7 500 W
at 690 V rated value	11 000 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
• at 110 V	0 A
• at 125 V	0 A
• at 220 V	0 A
Protective and monitoring functions	
product function	
 ground fault detection 	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (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	18 kA
at AC at 690 V rated value	8 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]	
 yielded mechanical performance [hp] for single-phase AC motor 	
	1.5 hp
 for single-phase AC motor 	1.5 hp 3 hp
 for single-phase AC motor — at 110/120 V rated value 	
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 	
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	3 hp
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	3 hp 5 hp
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	3 hp 5 hp 5 hp



Short-circuit protection			
product function short circuit protection	Yes		
design of the short-circuit trip	magnetic		
design of the fuse link			
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)		
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		
— backwards	0 mm		
— at the side	10 mm		
— forwards	0 mm		
• for live parts at 690 V			
— downwards	50 mm		
— upwards	50 mm		
— backwards	0 mm		
— at the side	10 mm		
— forwards	0 mm		
Connections/ Terminals			
product function removable terminal for auxiliary and control circuit	No		
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
arrangement of electrical connectors for main current circuit	Top and bottom		
type of connectable conductor cross-sections			
for main contacts			
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		



fin also atoma da el suitta a co		0 (4 05	25		
 finely stranded with core end processing at AWG cables for main contacts 		2x (1 25 mm ²), 1x (1 35 mm ²)			
		2x (18 2), 1x (18 1)			
type of connectable conductor of	cross-sections				
 for auxiliary contacts 					
— solid or stranded		2x (0,5 1,5 mm ²), 2x (0,7			
— finely stranded with cor		2x (0.5 1.5 mm ²), 2x (0.7			
 at AWG cables for auxiliary 	at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)		
 tightening torque for main co terminals 	ontacts with screw-type	3 4.5 N·m			
 tightening torque for auxiliary contacts with screw- type terminals 		0.8 1.2 N·m			
design of screwdriver shaft		Diameter 5 to 6 mm			
size of the screwdriver tip		Pozidriv 2			
design of the thread of the conn	nection screw				
 for main contacts 		M6			
 of the auxiliary and control contacts 		M3			
Safety related data					
B10 value					
 with high demand rate acc. t 	to SN 31920	5 000			
· · ·		5 000			
proportion of dangerous failures		FO 0/			
with low demand rate acc. to		50 %			
• with high demand rate acc. t	to SN 31920	50 %			
failure rate [FIT]	01104000				
with low demand rate acc. to		50 FIT			
T1 value for proof test interval o IEC 61508		10 y			
protection class IP on the front a	acc. to IEC 60529	IP20			
touch protection on the front ac	c. to IEC 60529	finger-safe, for vertical con	tact from the front		
display version for switching status	S	Handle			
display version for switching status Certificates/ approvals	S	Handle	_	_	
	S	Handle	_	_	
Certificates/ approvals	S	Handle			
Certificates/ approvals		Handle	KC	cor	
Certificates/ approvals		Handle	KC	EAC	
Certificates/ approvals		Handle	KC	EAC	
Certificates/ approvals General Product Approval		Handle	KC	EAC	
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Certificates/ approvals General Product Approval		U	KC Test Certificates	EAC	
Certificates/ approvals General Product Approval		Handle		EAC	
Certificates/ approvals General Product Approval		of Conformity	Test Certificates	EAC	
Certificates/ approvals General Product Approval	Declaration of	U		ERE Special Test Certificate	
Certificates/ approvals General Product Approval Control Control Contr	Declaration of CE	of Conformity	Test Certificates		
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Certificates/ approvals General Product Approval Control Control Contr	Declaration of CE	of Conformity	Test Certificates Type Test Certificates/Test		
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Certificates/ approvals General Product Approval Contract Approval	Declaration of CE	of Conformity <u>Miscellaneous</u>	Test Certificates Type Test Certificates/Test		
Certificates/ approvals General Product Approval Control Control Contr	Declaration of CE	of Conformity	Test Certificates Type Test Certificates/Test		
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Certificates/ approvals General Product Approval Type Test Certificates/Test Report Certificates	Declaration of Ex. EG-Konf.	of Conformity Miscellaneous Marine / Shipping	Test Certificates Type Test Certificates/Test Report	Certificate Hoyds Register	









Confirmation



Railway

Confirmation Vibration and Shock

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=3RV2032-4SA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4SA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

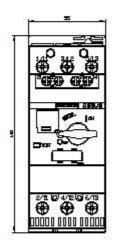
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4SA15&lang=en

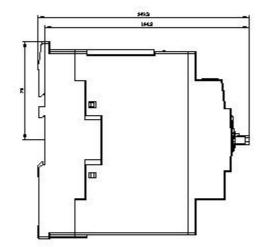
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4SA15/char

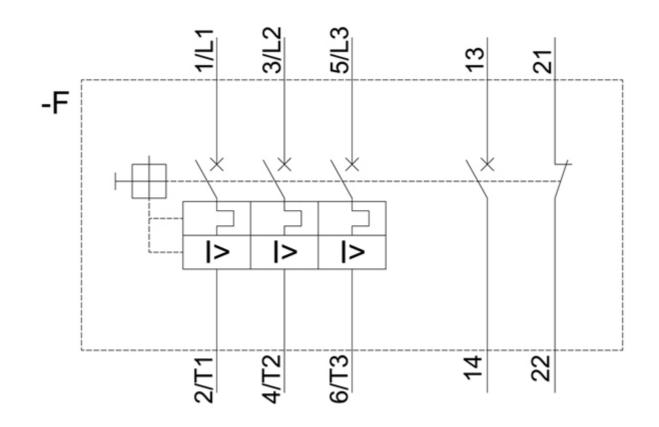
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4SA15&objecttype=14&gridview=view1









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