SIEMENS

Data sheet

3RV2032-4BA10



Circuit breaker size S2 for motor protection, CLASS 10 A-release 14...20 A N-release 260 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	\$2
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 (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	14 20 A
operating voltage	
rated value	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V

operational current 20 A operational current 20 A e at AC-34 at 400 Vrated value 20 A e at AC-36 at 400 Vrated value 20 A opparting power 20 A - at 230 Vrated value 20 A - at 2400 Vrated value 5. KW - at 250 Vrated value 15 KW - at 600 Vrated value 15 KW - at 240 Vrated value 5. KW - at 240 Vrated value 15 KW - at 250 Vrated value 15 KW - at 260 Vrated value 15 KW - at 260 Vrated value 15 KW - at 260 Vrated value 15 Ih Protective and monitoring functions Ves product function No • ground fault detection Ves • at AC at 260 Vrated value 100 KA • at AC at 260 Vrated value 100 KA • at AC at 260 Vrated value 100 KA • at AC at 260 Vrated value 100 K	operating frequency rated value	50 60 Hz
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at 230 V rated value3 hp• for 3-phase AC motor7.5 hp at 200/208 V rated value7.5 hp at 220/230 V rated value7.5 hp at 460/480 V rated value15 hp at 575/600 V rated value20 hpShort-circuit protectionYesdesign of the short-circuit protectiondesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 V100• at 400 V80	 for single-phase AC motor 	
• for 3-phase AC motor at 200/208 V rated value7.5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp- at 460/480 V rated value20 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuitnone required• at 240 Vnone required• at 400 V80	— at 110/120 V rated value	1.5 hp
- at 200/208 V rated value7.5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp- at 575/600 V rated value20 hpShort-circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 V100• at 240 V80	— at 230 V rated value	3 hp
- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp- at 575/600 V rated value20 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 240 V100• at 500 V80	 for 3-phase AC motor 	
at 460/480 V rated value15 hp at 575/600 V rated value20 hpShort-circuit protectionproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 400 V100• at 500 V80	— at 200/208 V rated value	7.5 hp
at 575/600 V rated value20 hpShort-circuit protectionYesproduct function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 400 V100• at 500 V80	— at 220/230 V rated value	7.5 hp
Short-circuit protection Yes 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 e at 240 V none required at 400 V 100 e at 500 V 80	— at 460/480 V rated value	15 hp
product function short circuit protectionYesdesign of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 400 V100• at 500 V80	— at 575/600 V rated value	20 hp
design of the short-circuit tripmagneticdesign of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 400 V100• at 500 V80	Short-circuit protection	
design of the fuse link for IT network for short-circuit protection of the main circuitnone required• at 240 Vnone required• at 400 V100• at 500 V80	product function short circuit protection	Yes
protection of the main circuit none required • at 240 V none required • at 400 V 100 • at 500 V 80	design of the short-circuit trip	magnetic
• at 240 V none required • at 400 V 100 • at 500 V 80		
• at 400 V 100 • at 500 V 80		
• at 500 V 80		
• at 690 V 63		
	• 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				
— 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			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	$2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2) 1x (1 25 mm^2)$			
— 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	3 4.5 N·m			
for main contacts with screw-type terminals design of screwdriver shaft	Jiameter 5 to 6 mm			
design of screwdriver shaft 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 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	10 y			
IEC 61508				
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	-	Hand	dle				
Certificates/ approval General Product Ap							
(S) M		<u>Confirmation</u>		KC	EHC		
For use in hazardou	us locations	Declaration of Con	formity	Test Certificates			
IECEX	K ATEX	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate		
Marine / Shipping							
ABS	B U REAU VER ITAS		Lloyd's Register uts	PRS	RINA		
Marine / Shipping	other		Railway				
RMRS	<u>Confirmation</u>	VDE	<u>Confirmation</u>	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=3RV2032-4BA10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4BA10 Service & Support (Menuels, Cartificates, Characteristics, EAOs,)							
https://support.indust	Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4BA10</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						

Image database (product images, 2D dimension drawings, 3D models, device circuit http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4BA10&lang=en iagrams, EPLAN macros, ...)

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4BA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4BA10&objecttype=14&gridview=view1

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