SIEMENS

Data sheet 3RV2032-4EA15



CIRCUIT BREAKER, SIZE S2, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 22...32A, N-RELEASE 416A, SCREW TERMINAL, INCREASED SWITCHING CAPACITY W. TRANSV. AUX. SWITCH 1NO+1NC

Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker
Design of the product	For motor protection

• on the front	IP20			
• of the terminal	IP00			
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			
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529			
Equipment marking acc. to DIN EN 81346-2	Q			
Ambient conditions				
Installation altitude at height above sea level	2 000 m			
maximum				
Ambient temperature				
during operation	-20 +60 °C			
during storage	-50 +80 °C			
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 pick-up value current of the current-	22 32 A			
dependent overload release				
Operating voltage				
• rated value	690 V			
	00014			

Main Circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	22 32 A
dependent overload release	
Operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	32 A
Operating current	
● at AC-3	
— at 400 V rated value	32 A
Operating power	
● at AC-3	
— at 230 V rated value	7 500 W
— at 400 V rated value	15 000 W
— at 500 V rated value	18 500 W
— at 690 V rated value	30 000 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
— Note	1
Number of NO contacts	
 for auxiliary contacts 	1
— Note	1
Operating current of auxiliary contacts at AC-15	
● at 24 V	2 A
● at 230 V	0.5 A
Operating 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	
Trip class	CLASS 10
Design of the overload release	thermal
Operational short-circuit current breaking capacity	
(Ics) at AC	400 A
• at 240 V rated value	100 A
• at 400 V rated value	50 kA
• at 500 V rated value	8 kA
at 690 V rated value	4 kA
Maximum short-circuit current breaking capacity (Icu)	400 1.4
• 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
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	32 A
at 600 V rated value	32 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for three-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp

— at 460/480 V rated value	25 hp
— at 575/600 V rated value	30 hp
Contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection			
Design of the short-circuit trip	magnetic		
Design of the fuse link			
 for short-circuit protection of the auxiliary switch required 	Fuse gL/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	125		
● at 500 V	100		
● at 690 V	80		

Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rai
	according to DIN EN 60715
Height	140 mm
Width	55 mm
Depth	149 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	10 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 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				
 single or multi-stranded 	2x (1 35 mm²), 1x (1 50 mm²)			
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)			
Type of connectable conductor cross-sections				
• for auxiliary contacts				
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)			
Tightening torque				
 for main contacts with screw-type terminals 	3 4.5 N⋅m			
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m			
Design of screwdriver shaft	Diameter 5 to 6 mm			
Design of the thread of the connection screw				
• for main contacts	M6			
• of the auxiliary and control contacts	M3			
Safety related data				
B10 value				
• with high demand rate acc. to SN 31920	5 000			
Proportion of dangerous failures				
• with low demand rate acc. to SN 31920	50 %			
 with high demand rate acc. to SN 31920 	50 %			
Failure rate [FIT]				
• with low demand rate acc. to SN 31920	50 FIT			
T1 value for proof test interval or service life acc. to IEC 61508	10 y			
Display version				
• for switching status	Handle			
Certificates/approvals				

General Product Approval

Declaration of Conformity

Test Certificates











spezielle Prüfbescheinigunge n

Test	Shipping App	roval	other		Railway
Certificates					
Typprüfbescheinigu ng/Werkszeugnis	ARS	Lloyd's Register	Umweltbestätigung	Bestätigungen	Schwingen/Schocke n

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4EA15

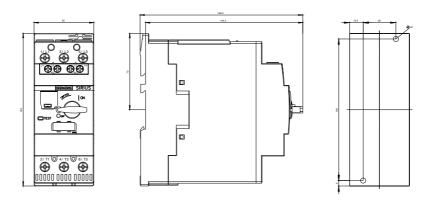
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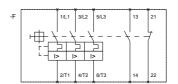
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4EA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4EA15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4EA15&lang=en







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