SIEMENS

Data sheet

3RV2031-4UA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 32...40 A N-release 585 A screw terminal Standard 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 	20 W
 at AC in hot operating state per pole 	6.7 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
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	32 40 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	40 A
operational current	

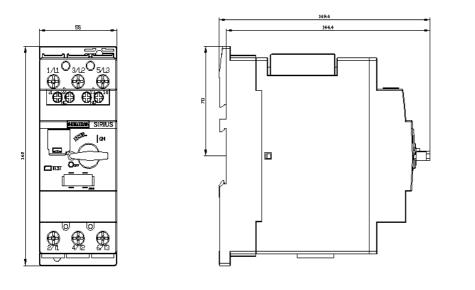
a at AC 2 at 400 V rated value	40.0
at AC-3 at 400 V rated value	40 A
at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
operating frequency	
• at AC-3 maximum	15 1/h
● at AC-3e 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	1A
• at 60 V	0.15 A
• at 110 V	0 A
	0A
• at 125 V	
• 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
maximum short-circuit current breaking capacity (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	65 kA
 at AC at 500 V rated value 	10 kA
 at AC at 690 V rated value 	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	30 kA
• at 500 V rated value	5 kA
• at 690 V rated value	2 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit	2 kA 585 A
response value current of instantaneous short-circuit trip unit	
response value current of instantaneous short-circuit trip unit UL/CSA ratings	
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	585 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	585 A 40 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]	585 A 40 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor	585 A 40 A 40 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value	585 A 40 A 40 A 3 hp
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	585 A 40 A 40 A
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor	585 A 40 A 40 A 3 hp 7.5 hp
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [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	585 A 40 A 40 A 3 hp 7.5 hp 15 hp
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [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	585 A 40 A 40 A 3 hp 7.5 hp 15 hp 15 hp
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [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 — at 460/480 V rated value	585 A 40 A 40 A 3 hp 7.5 hp 15 hp 30 hp
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [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	585 A 40 A 40 A 3 hp 7.5 hp 15 hp 15 hp

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jession of the fue link for I network for short-circuit none required • # 1240 V none required • • # 100 V 100 • • # 100 V 100 • • # 100 V 00 • # 100 V 00 mm	design of the fuse link			
protection of the main circuitIncrease required• it 260 V125• it 660 V100• it 660 V00Installation mounting dimensionserrew and anap-on mounting anto 38 mm DIN rail according to DIN EN 80715Insight140 rmfasteming methodserve and anap-on mounting anto 38 mm DIN rail according to DIN EN 80715Insight140 rmvidth55 mmGegeth0 mm• vidth side by died mounting at the side0 mm• vidth side by died mounting at the side0 mm• outwards50 mm- outwards50 mm <td> for short-circuit protection of the auxiliary switch required </td> <td colspan="3">fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)</td>	 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)		
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Installation mounting/ dimensions installation installati				
mounting position ary fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 55 mm depth 190 mm required spacing 0 mm • with side by-side mounting at the side 0 mm • or grounded parts at 400 V 50 mm - upwards 50 mm - upwards 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 - at the side 10 mm for ire parts at 680 V - <td></td> <td></td>				
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- a the side10 mm• for grounded parts at 500 V50 mm- downwards50 mm- upwards50 mm- at the side10 mm• at the side10 mm• for live parts at 500 V50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• at the side10 mm• downwards50 mm- upwards50 mm- for inte current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main contactsTop and bottom- solid or stranded2x (1 25 mm²), 1x (1 35 mm²)• for wWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for aduliary contacts2x (0 5 1.5 mm²), 2x (0.75 2.5 mm²)• for wWG cables for auxiliary contacts2x (0 5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts	— downwards	50 mm		
• for grounded parts at 500 V	— upwards	50 mm		
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• for live parts at 500 V	— upwards	50 mm		
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tightening torque	- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)		
• for main contacts with screw-type terminals 3 4.5 N·m	tightening torque			
	 for main contacts with screw-type terminals 	3 4.5 N·m		

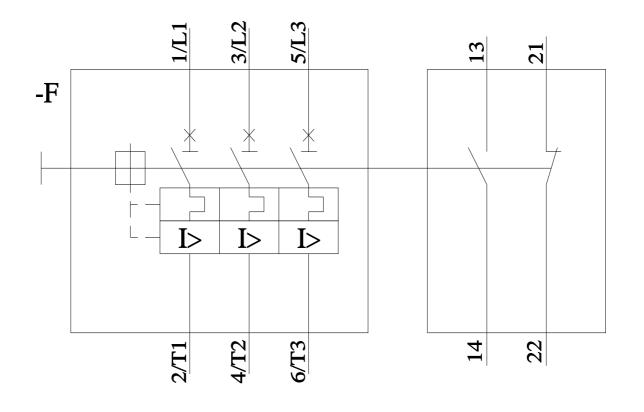
 for auxiliary contacts with screw-type terminals 		s (0.8 1.2 N·m			
design of screwdriver shaft			Diameter 5 to 6 mm			
size of the screwdriver tip			Pozidriv size 2			
design of the thread o	f the connection screw					
 for main contacts 	;	1	M6			
 of the auxiliary ar 	nd control contacts		M3			
Safety related data						
B10 value						
 with high demand 	d rate according to SN 31920		5 000			
proportion of dangero	ous failures					
 with low demand 	rate according to SN 31920	4	50 %			
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T1 value for proof test in 61508	nterval or service life accordir	ng to IEC	10 a			
protection class IP on	protection class IP on the front according to IEC 60529		IP20			
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Certificates/ approvals						
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<u>Confirmation</u>		(ال س	KC	EHC	IECEX	
For use in hazard- ous locations	Declaration of Conformit	У	Test Certificates		Marine / Shipping	
K ATEX	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
B U REAU VERITAS		Lloyds Register us	PRS	RINA	<u>Confirmation</u>	
other	Railway					
	Vibration and Shock	Confirmation				

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RV2031-4UA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4UA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4UA15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4UA15&objecttype=14&gridview=view1







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