SIEMENS

Data sheet

3RV2031-4VA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 35...45 A N-release 650 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

410	
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 	24.5 W
 at AC in hot operating state per pole 	8.2 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 (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	35 45 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	45 A
operational current	

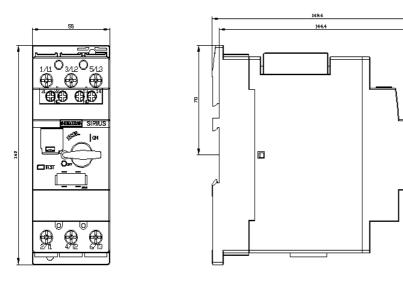
a at AC 2 at 400 V rated value	45.0
at AC-3 at 400 V rated value	45 A
at AC-3e at 400 V rated value	45 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
● at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 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
• at 125 V	0 A
• at 220 V	0 A
Protective and monitoring functions	
product function	
•	No
• ground fault detection	No Yes
ground fault detectionphase failure detection	Yes
ground fault detection phase failure detection trip class	Yes CLASS 10
ground fault detection phase failure detection trip class design of the overload release	Yes
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu)	Yes CLASS 10 thermal
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 65 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA
ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) e at AC at 240 V rated value e at AC at 500 V rated value e at AC at 500 V rated value e at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at 400 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA
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ground fault detection phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (lcu) e at AC at 240 V rated value e at AC at 500 V rated value e at AC at 690 V rated value operating short-circuit current breaking capacity (lcs) at AC e at 240 V rated value e at 400 V rated value e at 500 V rated value e at 400 V rated value e at 400 V rated value e at 690 V rated value e at 690 V rated value e at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA 2 kA
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 400 V rated value • at AC at 690 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 10 kA 4 kA 100 kA 30 kA 5 kA
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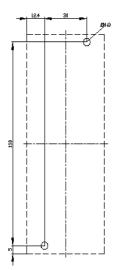
product function about incrult protection Yes design of the fuse link reagnetic e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for the fuse link e for the fuse link for fuse link e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0 for mm e for gunded parks at for 0	Short-circuit protection	
design of the fuse link ser specification protection of the sauling with frequined ser specification protection of the sauling with frequined design of the fuse link for Thereords for short-clincul none requined e 240 V none requined e 360 V 108 e 360 V 108 e 360 V 30 mounting dimensions mounting dimensions featuring position any featuring position 40 mm depth 55 mm height 40 mm e drop nonearing 0 mm e drop nonearing 0 mm - dommards 50 mm		Yes
• • • • • • to to the interior of the auxiling weak her queak• • weak go. 10 A. miniature circuit breaker C 6 A. (abort-circuit current it.k < 400 A)• • • • • • • • • • • • • • • • • • •	design of the short-circuit trip	magnetic
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>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)
• a: 240 Vnone required• a: 600 V125• a: 600 V80• a: 600 V80• a: 600 V80• a: 600 V80• a: 600 V90• 600 V <t< td=""><td></td><td></td></t<>		
• at 200 V125• at 200 V100• at 200 V90Interlated Verror and sup-on mounting onto 35 mm DIN rail according to DIN EN 60715Insight140 mmvidth55 mmorgun dogsning149 mm• with side by-side mounting at the side0 mm• with side by-side mounting at the side0 mm• with side by-side mounting at the side0 mm• with side by-side mounting at the side00 mm• with side by side mounting at the side00 mm• with side by side mounting at the side00 mm• with side by side mounting by side by si	-	none required
• at 500 \rightsymbol 200 • at 600 \rightsymbol 200 • at 600 \rightsymbol 200 • at 600 \rightsymbol 200 • at 66 mm • at 6		
• 1989 V 80 Installation mounting dimensions 97 fastening method 97% wind sape on mounting onto 35 mm DIN rail according to DIN EN 60715 fastening method 95 mm depth 95 mm required spacing 97 e-wind size by-side mounting at the side 0 mm e-downwards 50 mm downwards 50 mm at the side 10 mm at the side 50 mm at the side 50 mm at the side 50 mm at the side 10 mm downwards 50 mm at the side 10 mm downwards 50 mm at the side 10 mm <		
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>		
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm doph 149 mm doph 149 mm doph 149 mm doph 149 mm event stand 0 mm or grounde parts at 400 V 0 mm - downwards 50 mm - at the side 10 mm - of or live parts at 400 V 50 mm - uywards 50 mm - downwards 50 mm - uywards 50 mm - uywards 50 mm - uywards 50 mm - downwards 50 mm - uywards 50 mm - uywards 50 mm - uywards 50 mm - uywards <t< td=""><td></td><td>any</td></t<>		any
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vidth 55 mm depth 149 mm required spacing		
depth 149 mm required spacing i of or grounded parts at 400 V 50 mm downwards 50 mm upwards 50 mm at the side 10 mm i of wire parts at 400 V - downwards 50 mm at the side 10 mm downwards 50 mm downwards 50 mm downwards 50 mm upwards 50 mm upwards 50 mm upwards 50 mm upwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards		
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• with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 50 mm • upwards 50 mm • a the side 10 mm • onwwards 50 mm • a the side 10 mm • onwwards 50 mm • downwards 50 mm • upwards 50 mm • downwards		
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- downwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm - for austilary and control drout 50 mm - at the side 10 mm - for austilary and control drout screw-type terminals - of or austilary and control drout screw-type terminals - for austilary and contro		
		50 mm
• for live parts at 400 VS0 mm- downwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 500 V50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for live parts at 500 V50 mm- downwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side10 mm• for grounded parts at 690 V downwards50 mm- upwards50 mm- at the side10 mm• for five parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V downwards50 mm- at the side10 mm• for live parts at 690 V for wards50 mm- at the side10 mm• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• for auxiliary ont cortot circuitscrew-type terminals• for main contacts-• for wards contacts2x (125 mm ²), 1x (135 mm ²)• for AuXiG cables for main contacts2x (0.51.5 mm ²), 2x (0.75.	— upwards	50 mm
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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
- downwards50 mm- upwards50 mm- at the side10 mm- at the side10 mm- downwards50 mm- downwards50 mm- upwards50 mm- at the side10 mm- at the side10 mm- at the side50 mm- at the side50 mm- downwards50 mm- at the side10 mm- downwards50 mm- at the side10 mm- downwards50 mm- at the side10 mm- at the side10 mm- at the side10 mmconnectons/screw-type terminals- for main current circuitscrew-type terminals- for main current circuitscrew-type terminals- solid or stranded2x (1 25 mm²), 1x (1 35 mm²)- solid or stranded2x (1 16 mm²), 1x (1 35 mm²)- solid or stranded2x (1 35 mm²), 1x (1 35 mm²)- solid or stranded2x (1 16 mm²), 1x (1 35 mm²)- solid or stranded2x (0 1, 5 mm²), 2x (0.75 2, 5 mm²)- solid or stranded2x (0.5 1, 5 mm²), 2x (0.75 2, 5 mm²)- solid or stranded2x (0.5 1, 5 mm²), 2x (0.75 2, 5 mm²)- solid or stranded with core end processing2x (0.5 1, 5 mm²), 2x (0.75 2, 5 mm²)- solid or stranded with core end processing2x (0.5 1, 5 mm²), 2x (0.75 2, 5 mm²)- finely stranded with core end processing2x (0.5 1, 5 mm²), 2x (0.75 2, 5 mm²)- finely stranded with core end processing <td>— at the side</td> <td>10 mm</td>	— at the side	10 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

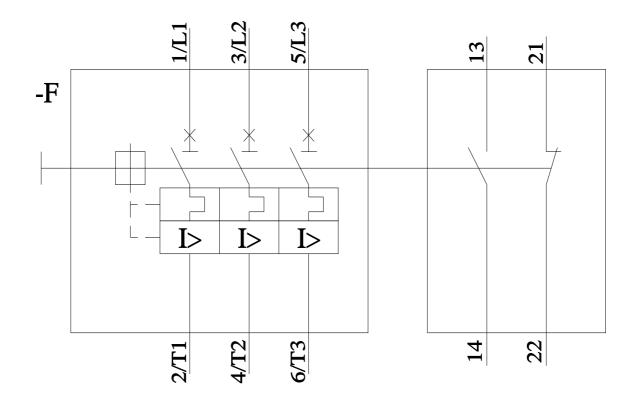
	acts with corow type terminal					
design of scrowdriver	• for auxiliary contacts with screw-type terminals		0.8 1.2 N·m			
design of screwdriver shaft		Diameter 5 to 6 mm				
size of the screwdriver tip			Pozidriv size 2			
design of the thread o	of the connection screw					
 for main contacts 			M6			
 of the auxiliary and control contacts 			М3			
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 i 61508	interval or service life accordi	ng to IEC	10 a			
protection class IP on	the front according to IEC	60529	IP20			
touch protection on th	he front according to IEC 6	0529	finger-safe, for vertical conta	ct from the front		
display version for swite	ching status		Handle			
Certificates/ approvals						
General Product App	roval				For use in hazard- ous locations	
<u>Confirmation</u>		Ű	<u>KC</u>	EHC	ATEX	
For use in hazard- ous locations	Declaration of Conformi	tv	Test Certificates			
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IECEx	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Marine / Shipping	
IECEx Marine / Shipping		C€			Marine / Shipping	
		C€			ABS	
Marine / Shipping	UK CA	EG-Konf.			ABS	
Marine / Shipping	UK CA	EG-Konf.			ABS	

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=3RV2031-4VA15 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4VA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4VA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4VA15&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4VA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4VA15&objecttype=14&gridview=view1







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