SIEMENS

Data sheet 3RV2031-4DA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 18...25 A N-release 325 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 	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	18 25 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
operating requerity rated value	25 A
operational current	
at AC-3 at 400 V rated value	25 A
at AC-3e at 400 V rated value	25 A
operating power	2011
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
• at AC-3e	22 1/44
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
operating frequency	ZZ KVV
at AC-3 maximum	15 1/b
at AC-3 maximum at AC-3e maximum	15 1/h 15 1/h
	10 1/11
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	
product fulletion	
ground fault detection	No
•	No Yes
ground fault detection	
ground fault detection phase 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 CLASS 10
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu)	Yes CLASS 10 thermal
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value	Yes CLASS 10 thermal
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics)	Yes CLASS 10 thermal 100 kA 65 kA 12 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (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 breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 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 12 kA 5 kA 100 kA 30 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 66 kA 30 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 66 kA 3 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 66 kA 3 kA
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 3 kA 3 25 A
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value It is a formation 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 at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 30 kA 6 kA 325 A
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 690 V rated value fesponse 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]	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 30 kA 6 kA 325 A
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value It is a formation 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 at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 3 kA 325 A
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 690 V rated value 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 for single-phase AC motor at 110/120 V rated value	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 3 kA 325 A 2 hp
ground fault detection phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 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 for single-phase AC motor	Yes CLASS 10 thermal 100 kA 65 kA 12 kA 5 kA 100 kA 30 kA 6 kA 3 kA 325 A

al 2002/28 V rated value al 460480 V rated value at 460480 V rated value at 460480 V rated value at 575600 V rated value 25 hp contact rating of auxillary contacts according to UL 26 hp 275600 V rated value 28 hp		
at 490/480 V tried value	— at 200/208 V rated value	7.5 hp
at 575/000 V rated value contact according to UL C300 / R300 Short-circuit protection protection protection for the protection of the substitution of the substit	 at 220/230 V rated value 	10 hp
Contact rating of auxillary contacts according to UL C300 / R300	 at 460/480 V rated value 	20 hp
Short-Circuit protection Product function short circuit trip magnetic design of the short-circuit protection Ves magnetic design of the fuse link % of short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit % of short-circuit current lik < of short-circuit protection of the sumiliary switch % of short-circuit current lik < of short-circuit % of short-circuit current lik < of short-circuit %	— at 575/600 V rated value	25 hp
product function short circuit protection design of the short-circuit protection of the sus link	contact rating of auxiliary contacts according to UL	C300 / R300
design of the short-circuit trip magnetic design of the fuse link for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit fuse gG: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse link for IT network for short-circuit protection of the main circuit fuse gG: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse link for IT network for short-circuit protection of the main circuit fuse gG: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse link for IT network for short-circuit protection of the main circuit fuse gG: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit current lik < 400 A) design of the fuse like fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit main current divided) fuse gg: 10 A, developed gg: 10 A, downwards fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit fuse gg: 10 A, downwards fuse gg: 10 A, downwards fuse gg: 10 A, downwards fuse gg: 10 A, ministure circuit breaker C 6 A (short-circuit fuse gg: 10 A, downwards fuse gg: 10 A, down	Short-circuit protection	
design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for I'n selvork for short-circuit protection of the main circuit • at 240 V • at 2500 V • at 3500 V • at 590 V Installation/ mounting/ dimensions mounting position fastening method according to Din En 80715 height 140 mm width depth 140 mm width depth 140 mm width depth • for grounded parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — or main contact S • for main current circuit • for auxiliary and contool circuit arrangement of electrical connectors for main current circuit tricuit 1ype of connectable conductor cross-sections • for main current circuit • for auxiliary and contool circuit arrangement of electrical connectors for main current circuit - solid or stranted • at AM2 Cables for main contacts • for main contacts • for main contacts • for main current circuit • for auxiliary and contool circuit arrangement of electrical connectors for main current full All All All All All All All All All	product function short circuit protection	Yes
for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit protection of the main circuit al 240 V al 400 V al 500 V a	design of the short-circuit trip	magnetic
required design of the fuse link for IT network for short-circuit protection of the main circuit value of consequence of the value of t	design of the fuse link	
protection of the main circuit		
• at 400 V • at 500 V • at 500 V • at 600 V		
* at 500 V 63 ***at 500 V 63 ***mounting position** **mounting position** **mounting position** **mounting position** **mounting position** **mounting position** **mounting position** **height** **height** **height** **height** **height** **hore grounded parts at 400 V		·
• at 680 V Installation/ mounting/ dimensions mounting position fastening method scoording to DIN EN 60715 height width depth 140 mm required spacing • for grounded parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — at the side • for flive parts at 500 V — downwards — at the side • for flive parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for flive parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for flive parts at 500 V — downwards — upwards — at the side • for flive parts at 500 V — downwards — at the side • for flive parts at 500 V — downwards — at the side • for flive parts at 500 V — downwards — upwards — at the side • for flive parts at 500 V — downwards — upwards — upwards — upwards — upwards — of for main contection • for main current circuit • for auxiliary and control circuit • for for sinc notacts • for main contacts • for main contacts • for main contacts • for five parts at 600 kinch mounts and the form main contacts • for main	● at 400 V	
mounting position any screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height	● at 500 V	80
mounting position fastening method according to DIN EN 60715 height width depth required spacing • for grounded parts at 400 V — downwards — upwards — of ror grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — the side • for live parts at 500 V — downwards — upwards — the side • for grounded parts at 690 V — downwards — the side • for grounded parts at 690 V — downwards — the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — at the side • for ilve parts at 690 V — downwards — at the side • for main current circuit • for auxiliary and control circuit • for main current circuit • for main current circuit • for for main contacts — finely stranded — finely stranded — finely stranded with core end processing • at AlVIG cables for main contacts - at AlVIG cables for main contacts - 2x (1 16 mm²), 1x (1 25 mm²) - 2x (1 16 m	● at 690 V	63
Seriew and snap-on mounting onto 35 mm standard mounting rail according to DiN EN 60715 140 mm 1	Installation/ mounting/ dimensions	
According to DIN EN 60715	mounting position	•
width	fastening method	
depth required spacing	height	140 mm
Fequired spacing	width	55 mm
• for grounded parts at 400 V - downwards - upwards - at the side • for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards • for grounded parts at 500 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side - for live parts at 500 V - downwards - upwards - at the side - for live parts at 500 V - downwards - upwards - at the side - for live parts at 500 V - downwards - upwards - at the side - for live parts at 500 V - downwards - upwards - at the side - for live parts at 600 V - downwards - upwards - at the side - for live parts at 600 V - downwards - upwards - at the side - for live parts at 600 V - downwards - upwards - to mm - t	depth	149 mm
- downwards	required spacing	
- upwards	 for grounded parts at 400 V 	
- at the side • for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - upwards - upwards - at the side • for live parts at 500 V - downwards - to downwards - to downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side 10 mm • for live parts at 690 V - downwards - at the side 10 mm • for live parts at 690 V - downwards - at the side 10 mm • for live parts at 690 V - downwards - at the side 10 mm • for live parts at 690 V - downwards - at the side 10 mm • for live parts at 690 V - downwards - at the side 10 mm • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) - at AWG cables for main contacts 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— downwards	50 mm
• for live parts at 400 V	— upwards	50 mm
	— at the side	10 mm
- upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - of live parts at 500 V - downwards - upwards - upwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for man contacts • for main current circuit • for auxilliary and control circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 25 mm²) - 2x (18 3), 1x (18 2)	 for live parts at 400 V 	
- at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - ut the side • for grounded parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 35 mm²) - 2x (1 25 mm²), 1x (1 25 mm²) - 2x (1 25 mm²), 1x (1 25 mm²)	— downwards	50 mm
• for grounded parts at 500 V — downwards — upwards — at the side 50 mm • for live parts at 500 V — downwards — upwards — upwards — at the side 10 mm • for grounded parts at 690 V — downwards — upwards — of grounded parts at 690 V — downwards — upwards — at the side 10 mm • for grounded parts at 690 V — downwards — at the side 10 mm • for live parts at 690 V — downwards — at the side 10 mm • for live parts at 690 V — downwards — at the side 10 mm • for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) — finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— upwards	50 mm
- downwards - upwards - at the side for live parts at 500 V - downwards - at the side for grounded parts at 690 V - downwards - upwards - at the side for grounded parts at 690 V - downwards - upwards - upwards - at the side for live parts at 690 V - downwards - at the side for live parts at 690 V - downwards - at the side for live parts at 690 V - downwards - at the side for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - of or incompart of electrical connection for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts - solid or stranded - finely stranded with core end processing at AWG cables for main contacts 50 mm 70 pand bottom	— at the side	10 mm
- upwards - at the side	 for grounded parts at 500 V 	
- at the side • for live parts at 500 V - downwards - upwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - upwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - Sol mm - to	— downwards	50 mm
• for live parts at 500 V downwards upwards at the side of for grounded parts at 690 V downwards upwards upwards at the side of for live parts at 690 V downwards at the side of live parts at 690 V downwards upwards of live parts at 690 V downwards upwards upwards upwards at the side of main current circuit of or main current circuit of or auxiliary and control circuit of or main current circuit of connectable conductor cross-sections of main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts sol contacts of main contacts at AWG cables for main contacts solid or stranded of main contacts	— upwards	50 mm
- downwards - upwards - at the side • for grounded parts at 690 V - downwards - at the side • for live parts at 690 V - downwards - at the side • for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards - upwards - upwards - at the side • for main current circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 50 mm - 10 mm - 50 mm - 70 mm - 7	— at the side	10 mm
- upwards - at the side 10 mm • for grounded parts at 690 V - downwards - upwards - at the side 10 mm 50 mm - at the side 10 mm • for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards - upwards - upwards - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) - at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) - at AWG cables for main contacts - 2x (1 25 mm²) - at AWG cables for main contacts	 for live parts at 500 V 	
- at the side • for grounded parts at 690 V - downwards - upwards - at the side • for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - at the side • for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - downwards 50 mm 50 mm - upwards 50 mm 50 pand bottom	— downwards	50 mm
for grounded parts at 690 V — downwards — upwards — at the side — 10 mm for live parts at 690 V — downwards — upwards — upwards — upwards — upwards — upwards — at the side — at the side — at the side — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — at the side 10 mm screw-type terminals screw-type terminals Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²)	— upwards	50 mm
- downwards - upwards - at the side - at the side - for live parts at 690 V - downwards - upwards - upwards - at the side - upwards - upwards - at the side - for main current circuit - for auxiliary and control circuit - arrangement of electrical connectors for main current circuit - for auxiliary and control circuit - screw-type terminals - Top and bottom - trouit - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 35 mm²) - at AWG cables for main contacts - 2x (1 16 mm²), 1x (1 25 mm²) - at AWG cables for main contacts - 2x (1 31 mm²) - 3x (1 35 mm²)		10 mm
- downwards - upwards - at the side - at the side - for live parts at 690 V - downwards - upwards - upwards - at the side - upwards - upwards - at the side - for main current circuit - for auxiliary and control circuit - arrangement of electrical connectors for main current circuit - for auxiliary and control circuit - screw-type terminals - Top and bottom - trouit - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 35 mm²) - at AWG cables for main contacts - 2x (1 16 mm²), 1x (1 25 mm²) - at AWG cables for main contacts - 2x (1 31 mm²) - 3x (1 35 mm²)	• for grounded parts at 690 V	
- at the side • for live parts at 690 V - downwards - upwards - at the side 10 mm 50 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 21 mm²) 2x (1 25 mm²)		50 mm
 for live parts at 690 V downwards upwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) at AWG cables for main contacts 	— upwards	50 mm
- downwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 50 mm 50 pand bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 50 mm 60 pand bottom 50 pand bottom	— at the side	10 mm
- downwards - upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 50 mm 50 pand bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 50 mm 60 pand bottom 50 pand bottom		
- upwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts 250 mm 10 mm Top and bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²)		50 mm
— at the side Connections/ Terminals type of electrical connection		
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of electrical connectors for main current circuit Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	•	10 mm
type of electrical connection		
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts screw-type terminals Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 		
 ◆ for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing ◆ at AWG cables for main contacts Screw-type terminals Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 3), 1x (18 2) 		screw-type terminals
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections		
type of connectable conductor cross-sections	arrangement of electrical connectors for main current	•
 for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²) 2x (1 25 mm²) 1x (1 25 mm²) 2x (1		
— solid or stranded 2x (1 25 mm²), 1x (1 35 mm²) — finely stranded with core end processing 2x (1 16 mm²), 1x (1 25 mm²) ● at AWG cables for main contacts 2x (18 3), 1x (18 2)		
 — finely stranded with core end processing • at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 		2x (1 25 mm²), 1x (1 35 mm²)
• at AWG cables for main contacts 2x (18 3), 1x (18 2)		

 for auxiliary contacts 	
— solid or 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 cables 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
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
 for main contacts 	M6
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	
B10 value • with high demand rate according to SN 31920	5 000
	5 000
with high demand rate according to SN 31920	5 000 50 %
with high demand rate according to SN 31920 proportion of dangerous failures	
 with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	50 %
with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT]	50 % 50 %
with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to	50 % 50 % 50 FIT
with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	50 % 50 % 50 FIT 10 y
with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	50 % 50 % 50 FIT 10 y

General Product Approval



Confirmation





<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

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=3RV2031-4DA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4DA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DA15

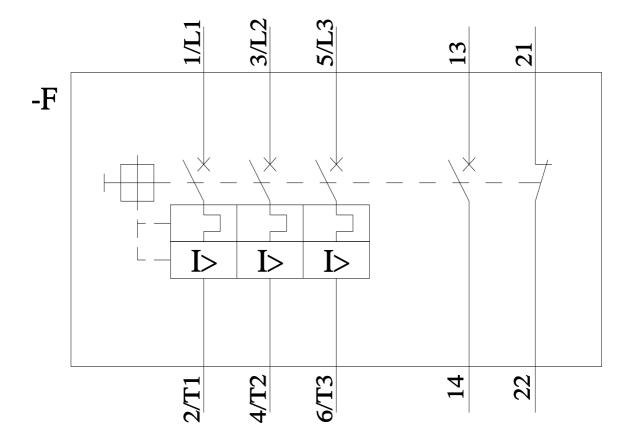
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4DA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4DA15&objecttype=14&gridview=view1



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