SIEMENS

Data sheet 3RV2031-4DB15



Circuit breaker size S2 for motor protection, Class 20 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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
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
reference code acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature during transport 	-50 +80 °C
temperature compensation	-20 +60 °C
temperature compensation	
relative humidity during operation	10 95 %
· · · · · · · · · · · · · · · · · · ·	10 95 %
relative humidity during operation	10 95 % 3
relative humidity during operation Main circuit	
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the	3
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release	3 18 25 A

operational current rated value	25 A
operational current at AC-3 at 400 V rated value	25 A
operating power at AC-3	
at 230 V rated value	5 500 W
at 400 V rated value	11 000 W
at 500 V rated value	15 000 W
at 690 V rated value	22 000 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
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	
ground fault detection	No
 phase failure detection 	Yes
trip class	Class 20
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs) at AC	
	100 kA
at 240 V rated value at 400 V rated value	
at 400 V rated value	30 kA
at 500 V rated value	6 kA
at 690 V rated value Associate	3 kA
breaking capacity maximum short-circuit current (Icu)	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	65 kA
at AC at 500 V rated value	12 kA 5 kA
at AC at 690 V rated value response value current of instantaneous short-circuit trip	325 A
unit	323 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	25 A
at 600 V rated value	25 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp
— at 575/600 V rated value	25 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
-	



design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V • at 500 V • at 600 V • at 500 V • at 500 V • at 600 V	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)
• at 400 V		
• at 500 V	• at 240 V	none required
natalitation/mounting/ dimensions	• at 400 V	100
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 140 mm depth width 65 mm depth required spacing • 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 50 Nm — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — ownwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or for grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 V — downwards — or grounded parts at 500 Nm or grounded parts at 500 V — downwards — or grounded parts at 500 Nm or groun	• at 500 V	80
mounting position sary screw and snap-on mounting onto 35 mm standard mounting rail secording to DIN EN 60715 secording to DIN EN 60	• at 690 V	63
Astening method according to DIN EN 60715 to mm	Installation/ mounting/ dimensions	
height 140 mm width 55 mm depth 150 mm required spacing • for grounded parts at 400 V — downwards 50 mm — upwards 50 mm — upwards 50 mm — at the side 10 mm — ownwards 50 mm — at the side 10 mm • for grounded parts at 500 V — downwards 50 mm — at the side 10 mm • for grounded parts at 500 V — downwards 50 mm — at the side 10 mm • for grounded parts at 500 V — downwards 50 mm — upwards 50 mm — upwards 50 mm • for live parts at 500 V — downwards 50 mm • at the side 10 mm • for live parts at 500 V — downwards 50 mm — at the side 10 mm • for live parts at 500 V — downwards 50 mm — at the side 10 mm • for for main care at 500 V — downwards 50 mm — at the side 10 mm • for five parts at 500 V — downwards 50 mm — backwards 0 mm • for live parts at 690 V — downwards 50 mm — backwards 0 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 0 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 70 mm • for live parts	mounting position	any
Meight M		screw and snap-on mounting onto 35 mm standard mounting rail
width		according to DIN EN 60715
depth required spacing e for grounded parts at 400 V downwards 50 mm upwards 50 mm upward	height	140 mm
required spacing • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — the side • for live parts at 400 V — downwards — upwards — the side • for grounded parts at 500 V — downwards — upwards — upwards — upwards — the side • for live parts at 500 V — downwards — of live parts at 500 V — downwards — of live parts at 500 V — downwards — the side • for live parts at 500 V — downwards — upwards — upwards — at the side • for grounded parts at 690 V — downwards — ownwards — the side • for grounded parts at 690 V — downwards — ownwards • for live parts at 690 V — downwards — the side — ownwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — downwards — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V — own • for live parts at 690 V • for live parts at 690	width	55 mm
• for grounded parts at 400 V	depth	149 mm
downwards 50 mm upwards 50 mm at the side 10 mm of rilve parts at 400 V downwards 50 mm upwards 50 mm at the side 10 mm of rorgounded parts at 500 V downwards 50 mm upwards 50 mm upwards 50 mm at the side 10 mm of rilve parts at 500 V downwards 50 mm at the side 10 mm of rilve parts at 500 V downwards 50 mm upwards 50 mm upwards 50 mm at the side 10 mm of rorgounded parts at 690 V downwards 50 mm upwards 50 mm at the side 10 mm of rorgounded parts at 690 V downwards 50 mm bockwards 0 mm to rowards 0 mm to rowards 0 mm to rowards 50 mm bockwards 10 mm to rowards 50 mm bockwards 10 mm to rowards 50 mm to rowards 50 mm		
- upwards - at the side for live parts at 400 V - downwards - upwards - at the side for grounded parts at 500 V - downwards - upwards - upwards - upwards - upwards - 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 grounded parts at 690 V - downwards - upwards - at the side for grounded parts at 690 V - downwards - upwards - backwards - upwards - the side - for live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - the side - for wards - upwards - or live parts at 690 V - downwards - or live parts at 690 V - or live	 for grounded parts at 400 V 	
- at the side	— downwards	50 mm
of for live parts at 400 V — downwards	- P	
- 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 - at the side 10 mm • for grounded parts at 600 V - downwards 50 mm - at the side 10 mm • for rive parts at 600 V - downwards 50 mm - at the side 10 mm • for rive parts at 600 V - downwards 50 mm - at the side 10 mm • for live parts at 600 V - downwards 50 mm - at the side 10 mm • for rive parts at 600 V - downwards 0 mm • for live parts at 600 V - downwards 0 mm • for main current circuit screw-type terminals rarrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded 12x (1 25 mm²), 1x (1 35 mm²) - at AWG cables for main contacts type of connectable conductor cross-sections • for main cabacts - solid or stranded 2x (1 25 mm²), 1x (1 25 mm²) - at AWG cables for main contacts type of connectable conductor cross-sections • for onnectable conductor cross-sections • for onnectable conductor cross-sections • for onnectable conductor cross-sections • for aut AWG cables for main contacts - solid or stranded 2x (1 25 mm²), 1x (1 25 mm²) - at AWG cables for main contacts - solid or stranded 2x (1 25 mm²), 1x (1 25 mm²) - at AWG cables for main contacts - solid or stranded 2x (1 25 mm²), 1x (1 25 mm²)		10 mm
- upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - at the side - at the side - at the side • for grounded parts at 690 V - downwards - at the side - for grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - at the side - forwards - upwards - tifle parts at 690 V - downwards - to mm -	•	
- at the side	— downwards	50 mm
• for grounded parts at 500 V — downwards — upwards — at the side • for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 690 V — downwards — upwards — upwards — upwards — upwards — upwards — backwards — upwards — backwards — on mm — the side — for wards — on mm • for live parts at 690 V — downwards — 50 mm — backwards — on mm — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — upwards — upwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — on mm • for main current circuit • for axiliary and control circuit * for axiliary and control circuit * screw-type terminals * screw-typ	— upwards	50 mm
- 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 - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 10 mm - forwards 0 mm - at the side 10 mm • for live parts at 690 V - downwards 50 mm - backwards 0 mm - at the side 10 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm - omm • for live parts at 690 V - downwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - omm - om	— at the side	10 mm
- upwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards • for grounded parts at 690 V - downwards - upwards - upwards - backwards - backwards - to filive parts at 690 V - downwards - 50 mm - at the side - forwards - o mm - at the side - forwards • for live parts at 690 V - downwards - to filive parts at 690 V - downwards - to mm - forwards - upwards - upwards - upwards - upwards - backwards - upwards - backwards - upwards - o mm - forwards - o mm - forwards - for man current circuit - for auxiliary and control circuit type of electrical connection • 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 AWC cables for main contacts type of connectable conductor cross-sections	 for grounded parts at 500 V 	
- at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards - forwards • for live parts at 690 V - downwards - backwards - backwards - backwards - backwards - backwards - backwards - forwards - forwards - for main content circuit • for auxiliary and control circuit - for main current circuit - for main contacts - solid or stranded - finely stranded - at AWG cables for main contacts - at Ithe side - forwards - formain contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - type of connectable conductor cross-sections - at the side - finely stranded with core end processing - at AWG cables for main contacts - type of connectable conductor cross-sections - at the side - finely stranded with core end processing - at AWG cables for main contacts - type of connectable conductor cross-sections - type of connectable conductor cross-sections - at the side - type of connectable conductor cross-sections - type of connectable conductor cross-sections - type of connectable conductor cross-sections	— downwards	50 mm
• for live parts at 500 V — downwards — upwards 50 mm — at the side 10 mm • for grounded parts at 690 V — downwards 50 mm • for grounded parts at 690 V — downwards 50 mm — upwards 50 mm — backwards — backwards — for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm — upwards — backwards — upwards — backwards — o mm • forwards — at the side — forwards O mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals Top and bottom type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 25 mm²) 2x (18 3), 1x (18 25 mm²)	— upwards	50 mm
- downwards - upwards - at the side - of or grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - backwards - for wards - for wards - for wards - omm - at the side - forwards - upwards - for live parts at 690 V - downwards - upwards - omm - the side - forwards - upwards - at the side - forwards - at the side - forwards - omm - omm - the side - forwards - omm - the side - forwards - omm - t	— at the side	10 mm
- upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - at the side - forwards - at the side - forwards • for live parts at 690 V - downwards - to mm - to mm - forwards - upwards - for live parts at 690 V - downwards - upwards - upwards - backwards - backwards - to mm - to rowards - the side - forwards - o mm - orwards - at the side - forwards - o mm - forwards - for main current circuit - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - at AWG cables for main contacts - type of connectable conductor cross-sections - for onectable conductor cross-sections - for main contacts - at AWG cables for main contacts - at AWG cables for main contacts - type of connectable conductor cross-sections - for main contacts - at AWG cables for main contacts - at AWG cables for main contacts - type of connectable conductor cross-sections	 for live parts at 500 V 	
- at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards • for live parts at 690 V - downwards - backwards - upwards - backwards - at the side - forwards 0 mm - at the side - forwards 0 mm - at the side - forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main curtacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • type of connectable conductor cross-sections type of connectable conductor cross-sections • type of connectable conductor cross-sections • type of connectable conductor cross-sections • type of connectable conductor cross-sections	— downwards	50 mm
for grounded parts at 690 V — downwards — upwards — backwards — at the side — forwards — forwards — of mm — downwards — upwards — upwards — backwards — backwards — at the side — forwards — of mm — forwards — of mm — forwards — of mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals 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 connectable conductor cross-sections e at AWG cables for main contacts 10 mm No No No 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²)	— upwards	50 mm
- downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 10 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 10 mm - forwards 0 mm - at the side 0 mm - at the side 10 mm - forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit screw-type terminals 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 16 mm²), 1x (1 25 mm²) • at AWG cables for main contacts 2x (18 3), 1x (18 2) type of connectable conductor cross-sections	— at the side	10 mm
- upwards - backwards - at the side - forwards o mm • for live parts at 690 V - downwards - upwards - backwards - upwards - upwards - backwards - backwards - at the side - forwards 0 mm - at the side - forwards 0 mm - at the side - forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections	 for grounded parts at 690 V 	
- backwards - at the side - for wards - for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - the side - for main corrent circuit - for main contacts - solid or stranded - sol or stranded - sol of stranded - finely stranded with core end processing - at the side - finely stranded conductor cross-sections - finely stranded with core end processing - at AWG cables for main contacts - for main contacts - sol of main contacts - sol of or main contacts - sol of or main contacts - sol of or stranded of conductor cross-sections - sol of or main contacts - sol of	— downwards	50 mm
- at the side - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 10 mm 0 mm - at the side 0 mm - at the side 0 mm - forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections	— upwards	50 mm
forwards • for live parts at 690 V downwards upwards upwards backwards at the side forwards omm om	— backwards	0 mm
for live parts at 690 V — downwards — upwards — backwards — at the side — forwards — forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections • to main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections • to main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts type of connectable conductor cross-sections	— at the side	10 mm
- downwards - upwards - backwards - at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections	— forwards	0 mm
- upwards - backwards - at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections • at AWG cables for main contacts - solid connectable conductor cross-sections • at AWG cables for main contacts - solid connectable conductor cross-sections • at AWG cables for main contacts - solid connectable conductor cross-sections	 for live parts at 690 V 	
- backwards 0 mm - at the side 10 mm - forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals 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 connectable conductor cross-sections • at AWG cables for main contacts type of connectable conductor cross-sections	— downwards	50 mm
- at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit 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 connectable conductor cross-sections 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²) 2x (1 25 mm²) 2x (1 25 mm²) 2x (1 25 mm²)	— upwards	50 mm
— forwards 0 mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — 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) type of connectable conductor cross-sections	— backwards	0 mm
product function removable terminal for auxiliary and control circuit 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 connectable conductor cross-sections 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)	— at the side	10 mm
product function removable terminal for auxiliary and control circuit type of electrical connection • for main current 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 connectable conductor cross-sections • at AWG cables for main contacts Lype of connectable conductor cross-sections • at AWG connectable conductor cross-sections No 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 (18 3), 1x (18 2)	— forwards	0 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 type of connectable conductor cross-sections 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (1 25 mm²) 2x (1 16 mm²), 1x (1 25 mm²)	Connections/ Terminals	
 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 connectable conductor cross-sections 		No
 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 connectable conductor cross-sections 	type of electrical connection	
 ◆ 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 connectable conductor cross-sections 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) type of connectable conductor cross-sections		screw-type terminals
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	for auxiliary and control circuit	
 for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts type of connectable conductor cross-sections 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 		Top and bottom
 for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts type of connectable conductor cross-sections 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 	type of connectable conductor cross-sections	
 — finely stranded with core end processing ■ at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) type of connectable conductor cross-sections 		
 — finely stranded with core end processing ■ at AWG cables for main contacts 2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) type of connectable conductor cross-sections 	— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
• at AWG cables for main contacts 2x (18 3), 1x (18 2) type of connectable conductor cross-sections	 finely stranded with core end processing 	
type of connectable conductor cross-sections		
	type of connectable conductor cross-sections	
	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
 tightening torque 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 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	
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
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	

Certificates/ approvals

General Product Approval









<u>KC</u>



Declaration of Conformity

Test Certificates



Miscellaneous

Type Test Certificates/Test Report Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report

Special Test Certificate

Marine / Shipping







(E







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=3RV2031-4DB15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4DB15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DB15

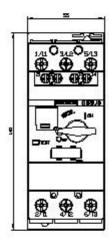
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4DB15&lang=en

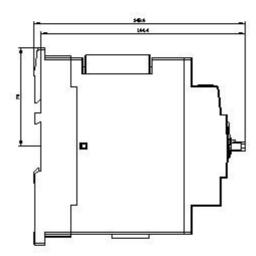
Characteristic: Tripping characteristics, I2t, Let-through current

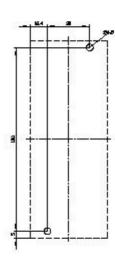
https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4DB15/char

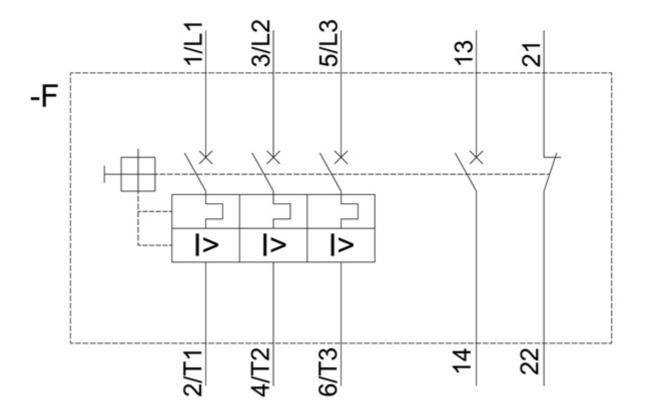
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RV2031-4DB15\&objecttype=14\&gridview=view1}$









last modified: 12/15/2020 🖸