# **SIEMENS**

Data sheet 3RV2031-4UB15



Circuit breaker size S2 for motor protection class 20 A-release 32...40 A N-release 585 A screw terminal Standard switching capacity with transverse auxiliary switch 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	
<ul> <li>at AC in hot operating state</li> </ul>	20 W
at AC in hot operating state per pole	6.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	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
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	32 40 A
operating voltage rated value	690 V
<ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz

operational current rated value	40 A
operational current at AC-3 at 400 V rated value	40 A
operating power at AC-3	
at 230 V rated value	11 000 W
• at 400 V rated value	18 500 W
• at 500 V rated value	22 000 W
at 690 V rated value	37 000 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 (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	30 kA
at 500 V rated value	5 kA
at 690 V rated value	2 kA
breaking capacity maximum short-circuit current (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	65 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	10 kA
• at AC at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip	585 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	40.0
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	40 A 40 A
	40 A
yielded mechanical performance [hp]	
<ul><li>for single-phase AC motor</li><li>— at 110/120 V rated value</li></ul>	3 hp
— at 110/120 v rated value  — at 230 V rated value	7.5 hp
for 3-phase AC motor	1.0 lip
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 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	agricat
assign of the race lilly	



design of the fuse link for IT network for short-circuit protection of the main circuit  at 240 V at 300 V beta 500 V beta 500 V cat 500 V beta 500 V beta 500 V cat 500 V cat 500 V beta 500 V cat	<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
• at 4:00 V		
• at 500 V	• at 240 V	none required
• at 590 V  Installation/ mounting/ dimensions  mounting position  fastening method  Installation/ mounting of dimensions  mounting position  according to DIN EN 60715  Installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715  Installation/ mounting rail accor	• at 400 V	125
mounting position   any   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm standard mounting rail   screw and snap-on mounting onto 35 mm   screw and snap-on mount	● at 500 V	100
mounting position fastering method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width 55 mm depth 149 mm required spacing • for grounded parts at 400 V — downwards — at the side • for live parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — upwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — upwards — opwards — backwards — upwards — backwards — opwards — backwards — on mm • for live parts at 690 V — downwards • for live parts at 690 V — downw	• at 690 V	80
Fastening method  according to DIN EN 60715  height  width  depth  140 mm  149 mm  required spacing  • for grounded parts at 400 V  — downwards — at the side — of rive parts at 400 V  — downwards — at the side — of rive parts at 500 V  — downwards — at the side — of roll rive parts at 500 V  — downwards — at the side — 10 mm  • for live parts at 500 V  — downwards — at the side — 10 mm  • for live parts at 500 V  — downwards — at the side — 10 mm  • for live parts at 500 V  — downwards — at the side — 10 mm  • for live parts at 500 V  — downwards — at the side — upwards — at the side — of or grounded parts at 690 V  — downwards — at the side — of or grounded parts at 690 V  — downwards — of or five parts at 690 V  — downwards — upwards — of roll rive parts at 690 V  — downwards — upwards — of roll rive parts at 690 V  — downwards — upwards — of roll rive parts at 690 V  — downwards — backwards — upwards — onwards — onwards — onwards • for live parts at 690 V  — downwards — onwards	Installation/ mounting/ dimensions	
Fastening method according to DIN EN 60715  height width depth 140 mm  for grounded parts at 400 V — downwards — upwards — of live parts at 400 V — downwards — the side — of rive parts at 500 V — downwards — upwards — at the side — of roll rive parts at 500 V — downwards — upwards — of roll rive parts at 500 V — downwards — of the side — of roll rive parts at 500 V — downwards — of roll rive parts at 500 V — downwards — of the side — of roll rive parts at 500 V — downwards — of the side — of roll rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — of rive parts at 500 V — downwards — one wards — upwards — of rive parts at 500 V — downwards — one wards — upwards — one wards — one wa	mounting position	any
beight	<u> </u>	screw and snap-on mounting onto 35 mm standard mounting rail
depth		according to DIN EN 60715
depth   required spacing   e for grounded parts at 400 V	height	140 mm
required spacing  • for grounded parts at 400 V  — downwards — at the side — the side — the side — of or ive parts at 400 V  — downwards — upwards — the side — the side — to five parts at 500 V — downwards — the side — to for grounded parts at 500 V — downwards — upwards — the side — to five parts at 500 V — downwards — upwards — the side — to five parts at 500 V — downwards — upwards — the side — to five parts at 500 V — downwards — at the side — to five parts at 690 V — downwards — the side — to five parts at 690 V — downwards — the side — to five parts at 690 V — downwards — backwards — the side — for live parts at 690 V — downwards — the side — for live parts at 690 V — downwards — the side — for live parts at 690 V — downwards — the side — for wards — upwards — the side — for wards — upwards — the side — for wards — the side — for wards — upwards — the side — for wards — upwards — the side — for wards — upwards — the side — for wards — backwards — upwards — backwards — on mm  • for main control circuit • for auxiliary and control circuit • for main contacts — solid or stranded — finely stranded with core end processing • at AVMG cables for main contacts  type of connectable conductor cross-sections  • for main contacts — solid or stranded — finely stranded with core end processing • at AVMG cables for main contacts  type of connectable conductor cross-sections	width	55 mm
• for grounded parts at 400 V	depth	149 mm
	required spacing	
upwards	<ul> <li>for grounded parts at 400 V</li> </ul>	
■ the side  • for live parts at 400 V  — downwards — upwards — at the side • for grounded parts at 500 V  — downwards — upwards — the side • for grounded parts at 500 V — downwards — the side • for live parts at 500 V — downwards — or live parts at 500 V — downwards — upwards — 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 — upwards — or mm — the side • for invertified — or mm — the side — or mm — or mm — the side — or mm — or mm — the side — or mm — or mm — or mm — the side — or mm — or or main current circuit — or main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts  type of connectable conductor cross-sections  • for man contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — at AVG cables for main contacts — solid or stranded — finely stranded with core end processing — stranded with core end processing — stranded with core end processing — stranded with	— downwards	50 mm
of for live parts at 400 V         — downwards	— upwards	50 mm
- downwards 50 mm - upwards 50 mm - at the side 10 mm - for grounded parts at 500 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - for grounded parts at 500 V - downwards 50 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - for live parts at 690 V - downwards 50 mm - at the side 10 mm - forwards 0 mm - the side 10 mm - the side 10 mm - powards 50 mm - upwards 50 mm - upwards 50 mm - ownwards 50 mm - ownwards 10 mm - ownwards 10 mm - ownwards 10 mm - prowards 10 mm - prow	— at the side	10 mm
- downwards 50 mm - upwards 50 mm - at the side 10 mm - for grounded parts at 500 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - for grounded parts at 500 V - downwards 50 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - for live parts at 690 V - downwards 50 mm - at the side 10 mm - forwards 0 mm - the side 10 mm - the side 10 mm - powards 50 mm - upwards 50 mm - upwards 50 mm - ownwards 50 mm - ownwards 10 mm - ownwards 10 mm - ownwards 10 mm - prowards 10 mm - prow	• for live parts at 400 V	
upwards at the side 10 mm 1	·	50 mm
at the side  • for grounded parts at 500 V  — downwards — upwards — at the side  • for live parts at 500 V  — downwards — upwards — out the side  • for grounded parts at 500 V  — downwards — at the side — to grounded parts at 690 V  — downwards — at the side — to grounded parts at 690 V  — downwards — upwards — backwards — upwards — at the side — for live parts at 690 V  — downwards — of the parts at 690 V  — downwards — the side — forwards — upwards — to live parts at 690 V  — downwards — to live parts at 690 V  — downwards — on mm  • for live parts at 690 V  — downwards — upwards — upwards — the side — forwards — on mm  On 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 contacts — solid or stranded — finely stranded with core end processing • at Al WG cables for main contacts  — solid or stranded — at It main contacts  ytepe of connectable conductor cross-sections  type of connectable conductor cross-sections  type of connectable conductor cross-sections  ytepe of connectable conductor cross-sections  type of connectable conductor cross-sections  ytepe of connectable conductor cross-sections  type of connectable conductor cross-sections		
• for grounded parts at 500 V	•	10 mm
- downwards 50 mm		
- upwards - at the side • for live parts at 500 V  - downwards - upwards - at the side • for grounded parts at 690 V  - downwards - upwards - upwards - odwnwards - upwards - upwards - upwards - upwards - upwards - backwards - upwards - backwards - omm - forwards - omm - for live parts at 690 V - downwards - omm - backwards - omm - om		50 mm
− at the side		
• for live parts at 500 V         — downwards         — upwards         — at the side         • for grounded parts at 690 V         — downwards         — upwards         — to mm         • for grounded parts at 690 V         — downwards         — upwards         — backwards         — backwards         — at the side         — forwards         — of for live parts at 690 V         — downwards         — downwards         • for live parts at 690 V         — downwards         — upwards         — upwards         — backwards         — upwards         — backwards         — omm         — at the side         — forwards         — omm         — at the side         — forwards         — omm         — or or wards         — omm         — or or wards         — omm         — to rewards         — on mm         — for or wards         — on mm         — on mm         — forwards         — on mm         — forwards         — on 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 contacts         — solid or stranded         — finely stranded with core end processing         • at AWC cables for main contacts  type of connectable conductor cross-sections  type of connectable conductor cross-sections  **One mm  **Control of the main contacts         — the main contacts         — solid or stranded         — finely stranded with core end processing         • at AWC cables for main contacts  type of connectable conductor cross-sections	•	
- downwards - upwards - at the side - for grounded parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - backwards - at the side - for wards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - backwards - backwards - backwards - backwards - backwards - for mm - forwards - for mm - forwards - the side - forwards - the side - formards - the side - formards - formards - the side - formards - formards - formards - formards - for auxiliary and control circuit - for main contacts - solid or stranded - finely stranded with core end processing - at AWC cables for main contacts - type of connectable conductor cross-sections - finely stranded with core end processing - at AWC cables for main contacts - type of connectable conductor cross-sections - finely stranded with core end processing - at AWC cables for main contacts - type of connectable conductor cross-sections - finely stranded with core end processing - at AWC cables for main contacts - type of connectable conductor cross-sections - the formar contacts - the side of mm - the mm -		10 111111
- upwards - at the side  • for grounded parts at 690 V  - downwards 50 mm  - upwards 50 mm  - backwards 0 mm  - forwards 60 for live parts at 690 V  - downwards 6 for live parts at 690 V  - downwards 50 mm  • for live parts at 690 V  - downwards 50 mm  - upwards 6 for live parts at 690 V  - downwards 50 mm  - upwards 0 mm  - ta the side 10 mm  - forwards 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 • 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  • at AWG cables for main contacts  type of connectable conductor cross-sections	•	E0 mm
- 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  • for live parts at 690 V  - downwards  - upwards  - backwards  - upwards  - backwards  0 mm  - at the side  10 mm  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  • type of connectable conductor cross-sections		
• for grounded parts at 690 V  — downwards — upwards — backwards — o mm — at the side — forwards • for live parts at 690 V — downwards — downwards — upwards — o mm  • for live parts at 690 V — downwards — upwards — upwards — backwards — backwards — o mm — at the side — forwards — o 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 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 • for main contacts  2x (1 25 mm²), 1x (1 35 mm²)  - (1 25 mm²)  2x (1 25 mm²)  2x (1 25 mm²)  2x (1 25 mm²)		
- downwards - upwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - backwards - backwards - at the side - forwards - o mm - at the side - forwards - o mm - at the side - forwards - o mm - 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  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		10 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 - backwards 0 mm - backwards 0 mm - at the side 10 mm - at the side 10 mm - forwards 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 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 - at the side - forwards 0 mm  • for live parts at 690 V - downwards 50 mm - backwards 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		
- at the side - forwards 0 mm  • for live parts at 690 V - downwards 50 mm - upwards - backwards 0 mm - at the side 10 mm 0 mm  - at the side 10 mm 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  10 mm 10	•	
for live parts at 690 V downwards upwards upwards backwards at the side forwards omm forwards omm forwards at the side omm forwards omm omm forwards omm		
<ul> <li>for live parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> <li>D mm</li> <li>— forwards</li> <li>O mm</li> <li>Connections/ Terminals</li> <li>product function removable terminal for auxiliary and control circuit</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>at AWG cables for main contacts</li> <li>2x (1 3, 1x (18 2)</li> <li>type of connectable conductor cross-sections</li> </ul>	— at the side	10 mm
- 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  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  50 mm  No  No  Screw-type terminals  screw-type terminals  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 25 mm²), 1x (1 25 mm²)	<ul> <li>for live parts at 690 V</li> </ul>	
- backwards - at the side - forwards  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection	— downwards	50 mm
- at the side - forwards  Connections/ Terminals  product function removable terminal for auxiliary and control circuit  type of electrical connection	— upwards	50 mm
— 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  1 on mm  No  No  No  Screw-type terminals  Top and bottom  Top and bottom  2x (1 25 mm²), 1x (1 35 mm²)  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 (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	— 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  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)  2x (1 16 mm²), 1x (1 25 mm²)	— 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 16 mm²), 1x (1 25 mm²)	Connections/ Terminals	
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul>		No
<ul> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul> 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	type of electrical connection	
<ul> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>type of connectable conductor cross-sections</li> </ul> 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	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 • at AWG cables for main contacts  type of connectable conductor cross-sections  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 (18 3), 1x (18 2)	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  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)		
<ul> <li>for main contacts         <ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>type of connectable conductor cross-sections</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (18 3), 1x (18 2)</li> </ul>		
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (18 3), 1x (18 2)</li> <li>type of connectable conductor cross-sections</li> </ul>		
<ul> <li>— finely stranded with core end processing</li> <li>■ at AWG cables for main contacts</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (18 3), 1x (18 2)</li> <li>type of connectable conductor cross-sections</li> </ul>	for main contacts	
• at AWG cables for main contacts 2x (18 3), 1x (18 2)  type of connectable conductor cross-sections		
type of connectable conductor cross-sections	<ul> <li>finely stranded with core end processing</li> </ul>	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	
• Tor auxiliary contacts	<ul> <li>for auxiliary contacts</li> </ul>	



<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
<ul> <li>tightening torque for main contacts with screw-type terminals</li> </ul>	3 4.5 N·m
<ul> <li>tightening torque for auxiliary contacts with screw- type terminals</li> </ul>	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	
<ul> <li>for main contacts</li> </ul>	M6
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Safety related data	
B10 value	
with high demand rate acc. to SN 31920	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	50 %
failure rate [FIT]	
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	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	Handle

# **General Product Approval**

Declaration of Conformity













Declaration	of
Conformity	

### **Test Certificates**

# Marine / Shipping

**Miscellaneous** 

Special Test Certificate Type Test
Certificates/Test
Report







### Marine / Shipping

other









Confirmation



## Railway

Confirmation

Vibration and Shock



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=3RV2031-4UB15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4UB15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UB15

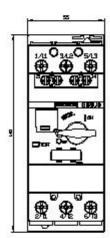
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

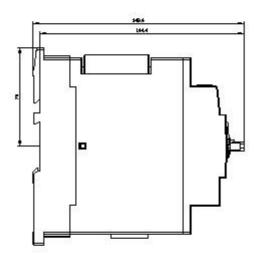
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4UB15&lang=en

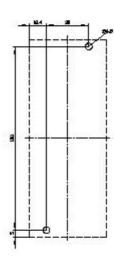
Characteristic: Tripping characteristics, I2t, Let-through current

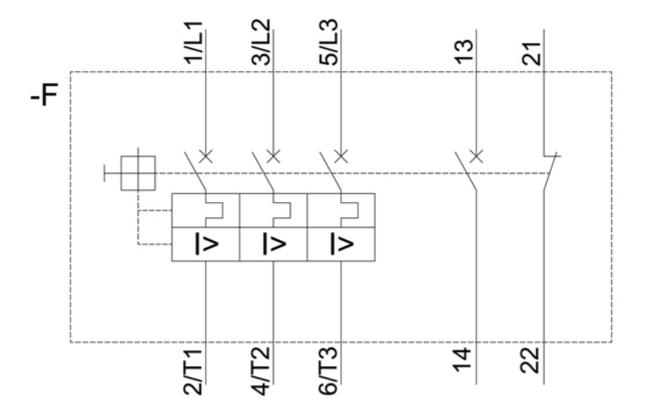
https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UB15/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4UB15&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4UB15&objecttype=14&gridview=view1</a>









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