## **SIEMENS**

Data sheet 3RV2031-4UA15



Circuit breaker size S2 for motor protection, CLASS 10 A-release 32...40 A N-release 585 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S2
size of contactor can be combined company-specific	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	20 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	50 000
<ul> <li>of auxiliary contacts typical</li> </ul>	50 000
electrical endurance (operating cycles) typical	50 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/15/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-20 +60 °C
<ul><li>during storage</li></ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	32 40 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e 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
at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
operating frequency	A.C. A.U.
<ul><li>at AC-3 maximum</li><li>at AC-3e maximum</li></ul>	15 1/h 15 1/h
	13 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 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	0.071
• 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	
<ul> <li>ground fault detection</li> </ul>	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	400 kA
<ul> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> </ul>	100 kA 65 kA
at AC at 400 V rated value     at AC at 500 V rated value	10 kA
at AC at 690 V rated value     at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics)	7 10 1
at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
at 400 V rated value	30 kA
at 500 V rated value	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	585 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	40 A
<ul> <li>at 600 V rated value</li> </ul>	40 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	15 hn
— at 200/208 V rated value	15 hp
<ul><li>— at 220/230 V rated value</li><li>— at 460/480 V rated value</li></ul>	15 hp
— at 450/460 V rated value	30 hp 40 hp
	·
contact rating of auxiliary contacts according to UL	C300 / R300

product function short circuit protection design of the short-circuit protection of the suxiliary switch required specified of the fuse link (or short-circuit protection of the auxiliary switch required (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit protection of the main circuit (absign of the fuse link for IT network for short-circuit (absign of the fuse link for IT n	Short-circuit protection	
design of the short-circuit trip 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  * at 240 V  * at 400 V  * at 400 V  * at 600 V  * at 600 V  * at 600 V  * at 680 V		Yes
design of the fuse link  * for short-circuit protection of the auxiliary switch required design of the fuse link for I'r network for short-circuit protection of the main circuit  ***o at 24 00 V**  * at 400 V**  * at 500 V**  * at 600 V**	·	
or farbort-circuit protection of the auxiliary switch required design of the fuse link for it'n network for short-circuit protection of the main circuit		
design of the fuse link for IT network for short-circuit protection of the main circuit	•	fuse qG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <
design of the fuse link for IT network for short-circuit protection of the main circuit   • at 240 V		
protection of the main circuit	·	,
	• at 240 V	none required
■ at 890 V	● at 400 V	125
mounting position fastering method 60715  height width 55 mm depth 149 mm required spacing  • with side-by-side mounting at the side 6 for grounded parts at 400 V — downwards 50 mm — at the side 10 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for five parts at 500 V — downwards 50 mm — at the side 10 mm  • for min current circuit 50 mm • for min current circuit 50 mm • for min current circuit 50 mm • for min current circuit 50 mm • for min contacts 50 mm • for min contacts 50 mm • fire min contacts 50 mm • at AlvG cables for main cortacts 50 x (1 25 mm²), 1x (1 25 mm²)  • at AlvG cables for main cortacts 50 x (1	● at 500 V	100
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width depth 140 mm vidth depth 149 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — of frive parts at 400 V — downwards — of frive parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — opwards — opwards — opwards — opwards — opwards — opwards — of live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — opwards — of live parts at 500 V — downwards — opwards — of frive parts at 500 V — downwards — opwards — of frive parts at 690 V — downwards — of frive parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — of main cornect or some control circuit • for auxillary 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 AVG cables for main cortacts  2x (125 mm²), 1x (135 mm²) — (2x (125 mm²), 1x (135 mm²) — (2x (135 mm²)	● at 690 V	80
mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width depth 140 mm vidth depth 149 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — of frive parts at 400 V — downwards — of frive parts at 400 V — downwards — at the side • for grounded parts at 500 V — downwards — at the side • for grounded parts at 500 V — downwards — opwards — opwards — opwards — opwards — opwards — opwards — of live parts at 500 V — downwards — at the side • for live parts at 500 V — downwards — opwards — of live parts at 500 V — downwards — opwards — of frive parts at 500 V — downwards — opwards — of frive parts at 690 V — downwards — of frive parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — at the side • for grounded parts at 690 V — downwards — of main cornect or some control circuit • for auxillary 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 AVG cables for main cortacts  2x (125 mm²), 1x (135 mm²) — (2x (125 mm²), 1x (135 mm²) — (2x (135 mm²)	Installation/ mounting/ dimensions	
fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 form           height width depth         140 mm           depth         149 mm           required spacing         • with side-by-side mounting at the side         0 mm           • for grounded parts at 400 V         — downwards         50 mm           — upwards         50 mm           — at the side         10 mm           • for live parts at 400 V         — downwards           — upwards         50 mm           — upwards         50 mm           — at the side         10 mm           • for grounded parts at 500 V         — downwards           — upwards         50 mm           — at the side         10 mm           • for live parts at 500 V         — downwards           — at the side         10 mm           • for grounded parts at 690 V         — downwards           — upwards         50 mm           — at the side         10 mm           • for live parts at 690 V         — downwards           — upwards         50 mm           — at the side         10 mm           • for live parts at 690 V         — downwards           — at the side         10 mm		any
60715   140 mm   14		
width depth         55 mm           depth         149 mm           required spacing		
width depth         55 mm           required spacing         with side-by-side mounting at the side         0 mm           • for grounded parts at 400 V         50 mm           — upwards         50 mm           — at the side         10 mm           • for live parts at 400 V         50 mm           — upwards         50 mm           — at the side         10 mm           • for grounded parts at 500 V         60 mm           — downwards         50 mm           — at the side         10 mm           • for live parts at 500 V         60 mm           — at the side         10 mm           • for live parts at 500 V         60 mm           — at the side         10 mm           • for grounded parts at 690 V         60 mm           — at the side         10 mm           • for grounded parts at 690 V         60 mm           — downwards         50 mm           — at the side         10 mm           • for live parts at 690 V         60 mm           — downwards         50 mm           — at the side         10 mm           • for live parts at 690 V         60 mm           — downwards         50 mm           — at the side         10	height	140 mm
required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards — upwards — ownwards — upwards — at the side • for grounded parts at 500 V  — downwards — ownwards — 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 live parts at 500 V  — downwards — ownwards — ownwards — ownwards — ownwards — 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 — upwards — upwards — 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 main current circuit • for main current circuit • for main current circuit • for main current of electrical connections • for main contacts  — solid or stranded — finely stranded with core end processing • at AVG cables for main contacts  • at AVG cables for main contacts  2x (1 25 mm²), 1x (1 25 mm²)  2x (1 35 mm²), 1x (1 25 mm²)  2x (1 35 mm²)  2x (1 35 mm²)  2x (1 35 mm²)  2x (1 35 mm²)	_	55 mm
• with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards — at the side — to make the side — to	depth	149 mm
• with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards — at the side — to make the side — to	•	
• for grounded parts at 400 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 400 V  - downwards 50 mm  - upwards 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  • for live parts at 500 V  - downwards 50 mm  - at the side 10 mm  • for five parts at 500 V  - 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 grounded parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for grounded parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 690 V  - downwards 50 mm  - at the side 10 mm  • for live parts at 690 V  - downwards 50 mm  - upwards 50 mm  - u		0 mm
- downwards		
- upwards - at the side • for live parts at 400 V - downwards - upwards - at the side • for 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 - 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 grounded parts at 690 V - downwards - 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 - 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 live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - at the side - for side 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 - x (1 25 mm²), 1x (1 25 mm²) - xt AWG cables for main contacts - x (2 x (1 31, 1x (18 2)		50 mm
• 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 - 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 - 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 - at the side • for live parts at 690 V - downwards - upwards - at the side • for main contacts - solid or stranded • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - stranded with core end processing • at AWG cables for main contacts - 2x (1 25 mm²), 1x (1 25 mm²) - 2x (1 .		
- upwards - at the side  • 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 - at the side - for live parts at 690 V  - downwards - of live parts at 690 V  - downwards - upwards - the side - to main current circuit - for main contacts - solid or 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 2)	•	50 mm
- at the side  • for grounded parts at 500 V  - downwards  - upwards  - at the side  • for live parts at 500 V  - downwards  - upwards  - upwards  - at the side  • for grounded parts at 500 V  - downwards  - upwards  - at the side  • for grounded parts at 690 V  - downwards  - upwards  - the side  • for live parts at 690 V  - downwards  - upwards  - the side  • for live parts at 690 V  - downwards  - upwards  - upwards  - upwards  - the side  10 mm   Connections/ Torminals  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 25 mm²)  2x (1 25 mm²), 1x (1 25 mm²)  2x (1 25 mm²), 1x (1 25 mm²)		
• 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 upwards 50 mm upwards 50 mm upwards 50 mm at the side 10 mm  ■ for grounded parts at 690 V downwards 50 mm at the side 10 mm  ■ of or live parts at 690 V downwards 50 mm at the side 10 mm  ■ for live parts at 690 V downwards 50 mm at the side 10 mm  ■ for live parts at 690 V downwards 50 mm at the side 10 mm  ■ of or live parts at 690 V downwards 50 mm at the side 10 mm  Connections/ Terminals  type of electrical connection ■ for main current circuit 5crew-type terminals ■ rangement of electrical connectors for main current circuit 5crew-type terminals ■ rangement of electrical connectors for main current circuit 5crew-type terminals ■ rangement of electrical connectors for main current circuit 5crew-type terminals ■ rangement of electrical connectors for main current circuit 5crew-type terminals		10 11111
- upwards		50 mm
- 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  - 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  - of mini 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  10 mm  50 mm  - 10 mm  50 mm  - 10 mm  50 mm  70 mm  50 mm  50 mm  70 mm  70 pand bottom		
<ul> <li>for live parts at 500 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>for grounded parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— upwards</li> <li>— at the side</li> <li>10 mm</li> <li>for live parts at 690 V</li> <li>— downwards</li> <li>— at the side</li> <li>10 mm</li> <li>for live parts at 690 V</li> <li>— downwards</li> <li>— upwards</li> <li>— upwards</li> <li>— upwards</li> <li>— upwards</li> <li>— at the side</li> <li>10 mm</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>of or auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>of or main contacts</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>of the AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 25 mm²)</li> <li>of the MWG cables for main contacts</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> </ul>	•	
- 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 - upwards - 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 p and bottom - 70 p and		10 11111
- upwards - at the side 10 mm  • for grounded parts at 690 V - downwards - upwards - at the side 50 mm - upwards - at the side 10 mm  • for live parts at 690 V - downwards - upwards - at the side 50 mm - upwards - downwards - 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), 1x (1 25 mm²) - at AWG cables for main contacts	•	50 mm
- 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  50 mm  50 mm  - the side  50 mm  - 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)  2x (1 25 mm²)  2x (1 25 mm²)		
<ul> <li>for grounded parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>at the side</li> <li>for live parts at 690 V</li> <li>downwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>at the side</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>for main contacts</li> <li>arrangement of electrical connectors for main current circuit</li> <li>for main contacts</li> <li>for main contacts</li> <li>arrangement of electrical connectors for main current circuit</li> <li>for main contacts</li> <li>for main contacts</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 25 mm²)</li> <li>at AWG cables for main contacts</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>at AWG cables for main contacts</li> </ul>	•	
- downwards - upwards - at the side 10 mm  • for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - upwards - upwards - at the side 10 mm   Connections/ Terminals  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  50 mm 60 mm		10 11111
- upwards - at the side  • for live parts at 690 V - downwards - upwards - at the side  50 mm - upwards - at the side  50 mm - 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  2 x (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 25 mm²)		50 mm
- 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)  2x (1 25 mm²)  2x (1 25 mm²)		
<ul> <li>for live parts at 690 V         — downwards         — upwards         — at the side         — screw-type terminals         — screw-type terminals         — top and bottom         — top and bottom         — at the side         — at the side         — screw-type terminals         — top and bottom         — top and bottom         — solid or stranded         — solid or stranded         — finely stranded with core end processing         — at the side         — screw-type terminals         — top and bottom         — top and bottom         — screw-type terminals         — top and bottom         — top and bottom         — screw-type terminals         — top and bottom         — top and bottom         — screw-type terminals         — top and bottom         — top and bottom         — screw-type terminals         — top and bottom         — top and bottom         — top and bottom         — screw-type terminals         — top and bottom         — screw-type terminals         — top and bottom         — top and bottom</li></ul>	·	
- downwards - upwards - at the side  Connections/ Terminals  type of electrical connection		10 111111
— upwards — at the side  Connections/ Terminals  type of electrical connection	•	50 mm
— at the side 10 mm  Connections/ Terminals  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  2 x (1 25 mm²), 1x (1 35 mm²)  2 x (1 16 mm²), 1x (1 25 mm²)  2 x (1 25 mm²), 1x (1 25 mm²)		
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   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)	·	
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		10 111111
<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         <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>screw-type terminals</li> <li>Top and bottom</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 25 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> </ul>		
<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         <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>screw-type terminals         <ul> <li>Top and bottom</li> </ul> </li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 25 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> </ul> <li>2x (1 16 mm²), 1x (1 25 mm²)</li>		
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 16 mm²), 1x (1 25 mm²)		
type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  • at AWG cables for main contacts  circuit  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 (18 3), 1x (18 2)		
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 (18 3), 1x (18 2)	•	l op and bottom
<ul> <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>2x (1 35 mm²)</li> <li>2x (1 31 mm²)</li> <li>2x (1 35 mm²)</li> <li>2x (1 35 mm²)</li> <li>2x (1 35 mm²)</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 (1 31, 1x (1 25 mm²)</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 (1 16 mm²), 1x (1 25 mm²)</li> <li>2x (1 16 mm²), 1x (1 25 mm²)</li> </ul>		2v (1 25 mm²\ 1v (1 25 mm²\
• at AWG cables for main contacts 2x (18 3), 1x (18 2)		
tune of connectable conductor erose coctions		ΔX (10 3), 1X (18 Δ)
type of connectable conductor cross-sections		
• for auxiliary contacts		0 (0 5 4 5 3) 0 (0 5 5 3 5
— 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)		2x (20 16), 2x (18 14)
tightening torque		
• for main contacts with screw-type terminals 3 4.5 N·m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 N⋅m</li> </ul>	for auxiliary contacts with screw-type terminals	0.8 1.2 N·m

design of screwdriver shaft
size of the screwdriver tip
design of the thread of the connection screw
• for main contacts

Diameter 5 to 6 mm Pozidriv size 2

M6 M3

of the auxiliary and control contacts

Safety related data

B10 value

• 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

touch protection on the front according to IEC 60529

display version for switching status

50 FIT 10 a

5 000

50 %

50 %

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

**General Product Approval** 



Confirmation





<u>KC</u>



For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 



IECEX







Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

**Further information** 

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2031-4UA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4UA15

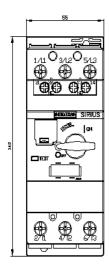
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15">https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15</a>

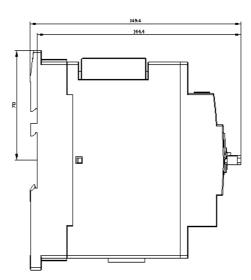
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2031-4UA15\&lang=en}}$ 

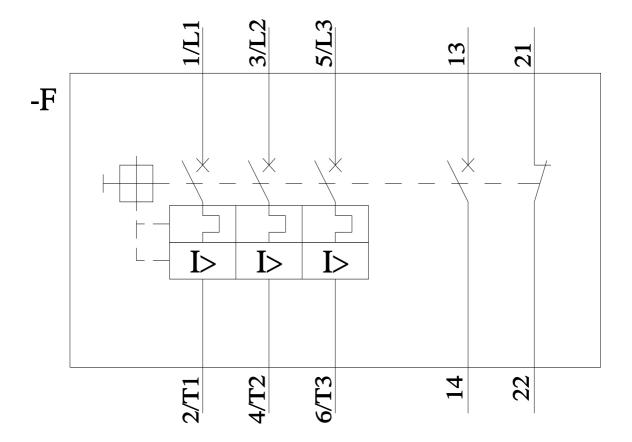
Characteristic: Tripping characteristics, I²t, Let-through current <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15/char">https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4UA15/char</a>

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4UA15&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4UA15&objecttype=14&gridview=view1</a>









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