## **SIEMENS**

## Data sheet 3RT2046-3NB30-0CC0



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, communication-capable

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S3		
product extension			
<ul> <li>function module for communication</li> </ul>	Yes		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	19.8 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	6.6 W		
<ul> <li>without load current share typical</li> </ul>	3.5 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	8 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V		
shock resistance at rectangular impulse			
• at AC	10.3g / 5 ms, 6,.g / 10 ms		
• at DC	6.7 g / 5 ms, 4g / 10 ms		
shock resistance with sine pulse			
• at AC	16.3g / 5 ms, 10.g / 10 ms		
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	03/01/2017		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	130 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	130 A
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> <li>• at AC-3</li> </ul>	110 A
at AC-3  — at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	80 A
at AC-5a up to 690 V rated value	114 A
at AC-5b up to 400 V rated value	95 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	84.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	84.4 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	84.4 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	FC 2 A
— up to 230 V for current peak value n=30 rated value	56.3 A 56.3 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated</li> </ul>	56.3 A
value  — up to 690 V for current peak value n=30 rated	56.3 A
value minimum cross-section in main circuit at maximum AC-1	50 mm <sup>2</sup>
operational current for approx. 200000 operating	
cycles at AC-4	42.4
at 400 V rated value     at 600 V rated value	42 A
at 690 V rated value	30 A
operational current	
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> </ul>	100 A
— at 24 V rated value  — at 60 V rated value	60 A
— at 50 V rated value  — at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A 0.4 A
with 2 current paths in series at DC-1	V. <del>T</del> /\
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A

<ul> <li>with 3 current paths in series at DC-1</li> </ul>		
— at 24 V rated value	100 A	
— at 60 V rated value	100 A	
— at 110 V rated value	100 A	
— at 220 V rated value	80 A	
— at 440 V rated value	4.5 A	
— at 600 V rated value	2.6 A	
• at 1 current path at DC-3 at DC-5		
— at 24 V rated value	40 A	
— at 60 V rated value	6 A	
— at 110 V rated value	2.5 A	
— at 220 V rated value	1 A	
— at 440 V rated value	0.15 A	
— at 600 V rated value	0.06 A	
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>		
— at 24 V rated value	100 A	
— at 60 V rated value	100 A	
— at 110 V rated value	100 A	
— at 220 V rated value	7 A	
— at 440 V rated value	0.42 A	
— at 600 V rated value	0.16 A	
with 3 current paths in series at DC-3 at DC-5		
— at 24 V rated value	100 A	
— at 60 V rated value	100 A	
— at 110 V rated value	100 A	
— at 220 V rated value	35 A	
— at 440 V rated value	0.8 A	
— at 600 V rated value	0.35 A	
operating power		
at AC-2 at 400 V rated value	45 kW	
• at AC-3		
— at 230 V rated value	22 kW	
— at 400 V rated value	45 kW	
— at 500 V rated value	55 kW	
— at 690 V rated value	75 kW	
— at 1000 V rated value	37 kW	
• at AC-3e		
— at 230 V rated value	22 kW	
— at 400 V rated value	45 kW	
— at 500 V rated value	55 kW	
— at 690 V rated value	75 kW	
— at 1000 V rated value	37 kW	
operating power for approx. 200000 operating cycles at AC-4		
at 400 V rated value	22 kW	
• at 690 V rated value	27.4 kW	
operating apparent power at AC-6a		
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	33 kVA	
• up to 400 V for current peak value n=20 rated value	58 kVA	
• up to 500 V for current peak value n=20 rated value	73 kVA	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69 kVA	
operating apparent power at AC-6a		
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	22.4 kVA	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	39 kVA	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	48.7 kVA	
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	67.3 kVA	
short-time withstand current in cold operating state up to 40 °C		
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 725 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 297 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	946 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	610 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	486 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency		

• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
<ul><li>at AC-1 maximum</li></ul>	900 1/h
<ul><li>at AC-2 maximum</li></ul>	350 1/h
<ul> <li>at AC-3 maximum</li> </ul>	850 1/h
<ul> <li>at AC-3e maximum</li> </ul>	850 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
• rated value	20 33 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated	1.1
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	6.5 A
duration of inrush current peak	50 μs
locked-rotor current mean value	3.2 A
locked-rotor current peak	6.5 A
duration of locked-rotor current	150 ms
holding current mean value	75 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	151 VA
● at 60 Hz	151 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	3.5 VA
• at 60 Hz	3.5 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	F0 70
• at AC	50 70 ms 50 70 ms
• at DC	50 70 ms
opening delay  • at AC	38 57 ms
• at DC	38 57 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2, optionally via function module
Auxiliary circuit	Contract of the optionary via farious introduction
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value     at 600 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	10.0
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	10 A 6 A
at 48 v rated value     at 60 V rated value	6 A
at 50 V rated value     at 110 V rated value	3 A
at 110 V rated value     at 125 V rated value	2 A
at 123 V rated value     at 220 V rated value	1 A
- at 220 v rated value	171

10001/ 1 1 1	0.45 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	96 A
<ul> <li>at 600 V rated value</li> </ul>	77 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>— at 110/120 V rated value</li> </ul>	10 hp
— at 230 V rated value	20 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
<ul> <li>at 200/208 V rated value</li> </ul>	30 hp
<ul> <li>— at 220/230 V rated value</li> </ul>	30 hp
— at 460/480 V rated value	75 hp
<ul> <li>at 575/600 V rated value</li> </ul>	75 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A
	(415 V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A
	(415 V, 80 kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
required	
Installation/ mounting/ dimensions	
	+/-180° rotation possible on vertical mounting surface; can be tilted
Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Installation/ mounting/ dimensions mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes  140 mm  70 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes  140 mm  70 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes  140 mm  70 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing • with side-by-side mounting	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm 0 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 0 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 0 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side  • at the side • at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — installation/ mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — at the side — downwards — at the side — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — downwards • for live parts	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — for live parts — forwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards — at the side — for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — downwards — downwards	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards  • for live parts — forwards — upwards — downwards — at the side  Connections/ Terminals	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — downwards — at the side — downwards — at the side — downwards — at the side	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
Installation/ mounting/ dimensions mounting position  fastening method  • side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm

type of connectable conductor cross-sections for main • finely stranded with core end processing 2x (2.5 ... 35 mm<sup>2</sup>), 1x (2.5 ... 50 mm<sup>2</sup>) connectable conductor cross-section for main contacts 2.5 ... 16 mm<sup>2</sup> solid 6 ... 70 mm<sup>2</sup> stranded 2.5 ... 50 mm<sup>2</sup> • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded 0.5 ... 2.5 mm<sup>2</sup> • finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup> • finely stranded without core end processing 0.5 ... 2.5 mm<sup>2</sup> type of connectable conductor cross-sections · for auxiliary contacts - solid or stranded 2x (0.5 ... 2.5 mm<sup>2</sup>) - finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>) - finely stranded without core end processing 2x (0.5 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16) AWG number as coded connectable conductor cross section 10 ... 2

· for main contacts

· for auxiliary contacts

20 ... 14

Safety related data product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

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

touch protection on the front according to IEC 60529 suitability for use

· safety-related switching OFF

Yes

No

1 000 000

40 % 73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

**General Product Approval** 



Confirmation





KC



**Functional EMC Declaration of Conformity Test Certificates** Safety/Safety of Machinery



**Type Examination Certificate** 



Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>

Marine / Shipping







<u>tion</u>







other	Railway	Dangerous Good
Confirmation	Vibration and Shock	Transport Informa-

## **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=3RT2046-3NB30-0CC0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2046-3NB30-0CC0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3NB30-0CC0

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

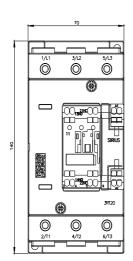
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-3NB30-0CC0&lang=en

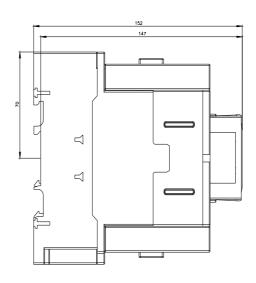
Characteristic: Tripping characteristics, I2t, Let-through current

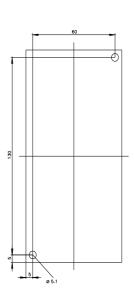
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-3NB30-0CC0/char

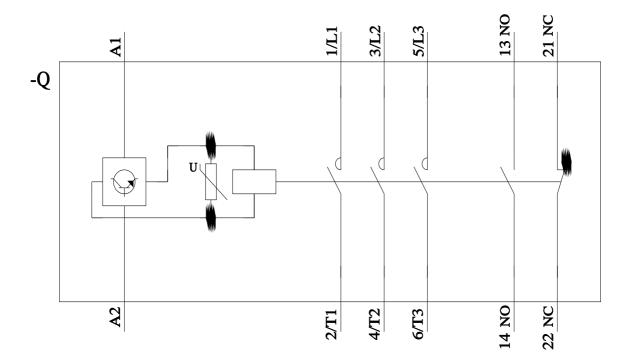
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-3NB30-0CC0&objecttype=14&gridview=view1









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