# **SIEMENS**

## **Data sheet**

## 3RT2047-1NB34-3MA0



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, captive auxiliary switch

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>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	23.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	7.9 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>	1 000 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	95 %
maximum	

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>	1 000 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	
— up to 690 V at ambient temperature 40 °C rated value	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 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-3e	30 A
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	97 A
at AC-5a up to 690 V rated value	120 A
• at AC-5b up to 400 V rated value	110 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	98 A
— up to 690 V for current peak value n=20 rated value	98 A
• at AC-6a	05.0.4
— up to 230 V for current peak value n=30 rated value	65.3 A 65.3 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>	65.3 A
value  — up to 690 V for current peak value n=30 rated	65.3 A
value minimum cross-section in main circuit at maximum AC-1	50 mm²
operational current for approx. 200000 operating	
cycles at AC-4	46.0
at 400 V rated value     at 600 V rated value	46 A
at 690 V rated value     perational current	36 A
operational current	
at 1 current path at DC-1  at 24 V rated value	100 A
— at 60 V rated value	60 A
— 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	0.4 A
with 2 current paths in series at DC-1	0.17.
— 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
<ul><li>at 1 current path at DC-3 at DC-5</li></ul>	
— 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
<ul> <li>with 3 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	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-4	
at AC-4     at 400 V rated value	24.3 kW
at 400 V rated value     at 690 V rated value	32.9 kW
operating apparent power at AC-6a	OZ.O KYY
up to 230 V for current peak value n=20 rated value	39 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	67 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	84 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	117 kVA
operating apparent power at AC-6a	111 11111
up to 230 V for current peak value n=30 rated value	26 kVA
up to 400 V for current peak value n=30 rated value	45.2 kVA
up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value	56.5 kVA
up to 690 V for current peak value n=30 rated value	78 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	1 960 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	1 502 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	1 095 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	707 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	562 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	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	20 33 V
<ul> <li>at 60 Hz rated value</li> </ul>	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
	1.1
operating range factor control supply voltage rated 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	454 )/A
● at 50 Hz ● at 60 Hz	151 VA 151 VA
	IST 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	2,7 99
• at AC	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
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
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	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
<ul><li>at 60 V rated value</li></ul>	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A

10001/	0.45 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 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>	99 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>	40 hp
<ul> <li>at 460/480 V rated value</li> </ul>	75 hp
<ul> <li>at 575/600 V rated value</li> </ul>	100 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
<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: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A
	(415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
required Installation/ mounting/ dimensions	
required	+/-180° rotation possible on vertical mounting surface; can be tilted
required Installation/ mounting/ dimensions mounting position	forward and backward by +/- 22.5° on vertical mounting surface
required Installation/ mounting/ dimensions	
required 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
required  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
required 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
required 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
required  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
required  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
required  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
required  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 195 mm
required  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 195 mm
required  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 195 mm
required  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 195 mm  20 mm 10 mm 10 mm
required  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 195 mm  20 mm 10 mm 10 mm
required  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 195 mm  20 mm 10 mm 10 mm 0 mm
required  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 195 mm  20 mm 10 mm 0 mm 0 mm
required  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 — a 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 195 mm  20 mm 10 mm 0 mm 0 mm
required  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 195 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
required  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 — at the side • for grounded parts — 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 195 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
required  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 — downwards — at the side — downwards — 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 195 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
required  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 — 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 195 mm  20 mm 10 mm 0 mm 10 mm
required  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 — forwards — upwards — at the side — downwards — upwards — torwards — upwards — upwards — upwards — upwards — 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 195 mm  20 mm 10 mm 0 mm 10 mm
required  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 195 mm  20 mm 10 mm 0 mm 10 mm
required  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 195 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 • at the side — downwards — upwards — upwards — at the side  Connections/ Terminals  type of electrical connection	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 195 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 • 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 195 mm  20 mm 10 mm 0 mm 10 mm
required  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 — at the side — downwards  • 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 195 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 • 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 195 mm  20 mm 10 mm 0 mm 10 mm

type of connectable conductor cross-sections for main contacts

finely stranded with core end processing
 separately conductor cross section for many controls.

connectable conductor cross-section for main contacts

- solid
- stranded
- finely stranded with core end processing

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
  - solid or stranded
  - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

- · for main contacts
- · for auxiliary contacts

2x (2.5 ... 35 mm²), 1x (2.5 ... 50 mm²)

2.5 ... 16 mm<sup>2</sup>

6 ... 70 mm<sup>2</sup>

2.5 ... 50 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

10 ... 2

20 ... 14

#### Safety related data

#### product function

• mirror contact according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

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 suitability for use

- safety-related switching on
- safety-related switching OFF

Yes

No

1 000 000

40 %

73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

No

Yes

## Certificates/ approvals

## **General Product Approval**



Confirmation



'

KC



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping



Type Examination Certificate



C E

Special Test Certificate



Marine / Shipping

other













Railway Dangerous Good

<u>Vibration and Shock</u> <u>Transport Information</u>

#### **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=3RT2047-1NB34-3MA0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2047-1NB34-3MA0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NB34-3MA0

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

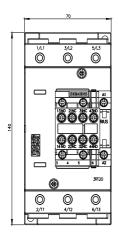
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-1NB34-3MA0&lang=en

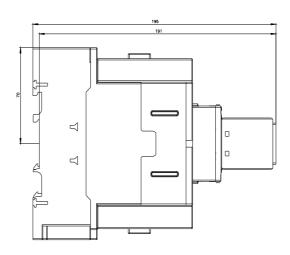
Characteristic: Tripping characteristics, I2t, Let-through current

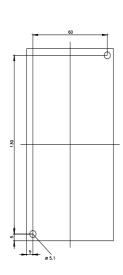
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NB34-3MA0/char

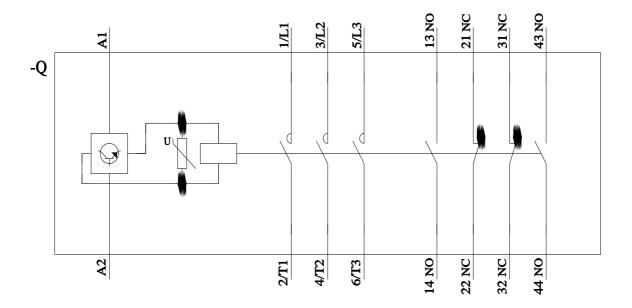
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1NB34-3MA0&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸