## **SIEMENS**

Data sheet 3RT2046-1AC20



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

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
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>	25 W
type of calculation of power loss depending on pole	quadratic
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	
of main circuit rated value	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation 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
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.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
Weight	1.716 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	405 kg
Global Warming Potential [CO2 eq] during manufacturing	7.66 kg
Global Warming Potential [CO2 eq] during operation	399 kg
Global Warming Potential [CO2 eq] after end of life	-1.19 kg
Main circuit	i.iv ng
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	<u> </u>
at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum     at AC-3e rated value maximum	1 000 V
operational current	1 000 V
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	130 A
<ul> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	130 A
— up to 690 V at ambient temperature 60 °C rated value	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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	80 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	114 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
— up to 400 V for current peak value n=20 rated value	84.4 A
— up to 500 V for current peak value n=20 rated value	84.4 A
<ul><li>— up to 690 V for current peak value n=20 rated value</li><li>• at AC-6a</li></ul>	58 A
— up to 230 V for current peak value n=30 rated value	56.3 A
— up to 400 V for current peak value n=30 rated value	56.3 A
— up to 500 V for current peak value n=30 rated value	56.3 A
— up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	42 A
at 690 V rated value	30 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	400 A
— 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 440 V rated value  — at 600 V rated value	1.0 A
with 3 current paths in series at DC-1	
— 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 440 V rated value  — at 600 V rated value	2.6 A
at 1 current path at DC-3 at DC-5	2.0 A
— at 24 V rated value	40 A
	6 A
— at 60 V rated value	2.5 A
— at 110 V rated value	
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	400.4
— 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	400.4
— 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	45 1344
at AC-2 at 400 V rated value	45 kW
• at AC-3	00 1144
— 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	00 144
— 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-	
at 400 V rated value	22 kW
at 690 V rated value	27.4 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	33 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	58 kVA
up to 500 V for current peak value n=20 rated value	73 kVA
up to 690 V for current peak value n=20 rated value	69 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	22.4 kVA
up to 400 V for current peak value n=30 rated value	39 kVA
up to 500 V for current peak value n=30 rated value	48.7 kVA
up to 690 V for current peak value n=30 rated value	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

	4.007.4.11
<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
limited to 60 s switching at zero current maximum	486 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
at AC-1 maximum	900 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 1/h
at AC-3e maximum	850 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	250 1/11
	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	348 VA
• at 60 Hz	296 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	
• at 50 Hz	25 VA
• at 60 Hz	18 VA
inductive power factor with the holding power of the coil	IO VA
at 50 Hz	0.25
	0.35
• at 60 Hz	0.41
closing delay	40 50
• at AC	13 50 ms
opening delay	
• at AC	10 21 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 instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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
at 60 V rated value	6 A
at 110 V rated value	3 A
	2 A
at 125 V rated value     at 230 V rated value	
at 220 V rated value	1.4
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	0. A
• at 40 v fated value	2 A

at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	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	
at 480 V rated value	96 A
at 600 V rated value	77 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	75 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	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
factoning method	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
height width	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm
height width depth	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
height width depth required spacing	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm
height width depth required spacing • with side-by-side mounting	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm
height width depth required spacing  • with side-by-side mounting — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm 10 mm 0 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 10 mm 0 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm
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 • for grounded parts — forwards — upwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
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  — downwards  — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm 20 mm
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 grounded parts — forwards — upwards — at the side — downwards • for live parts	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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 grounded parts  — forwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — upwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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 — in the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards — downwards	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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 grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm
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  — downwards  • for live parts  — forwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm
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  — at the side  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm
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  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm
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  — at the side  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm  screw-type terminals screw-type terminals screw-type terminals Screw-type terminals
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  — at the side  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm
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  — at the side  — downwards  • for live parts  — forwards  — upwards  — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm  screw-type terminals screw-type terminals screw-type terminals Screw-type terminals
height width depth required spacing	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm 70 mm 152 mm  20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals
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 — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  70 mm  152 mm  20 mm  10 mm  0 mm  10 mm  10 mm  10 mm  10 mm  10 mm  10 mm  screw-type terminals screw-type terminals screw-type terminals Screw-type terminals

connectable conductor cross-section for main contacts	
• solid	2.5 16 mm²
• stranded	6 70 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<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)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	10 2
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

**General Product Approval** 





Confirmation





<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping









Confirmation

other

Special Test Certificate

Railway

## **Transport Information**



**Environmental Con**firmations

## Further information

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AC20

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

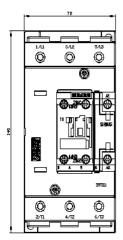
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-1AC20&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2046-1AC20&lang=en</a>

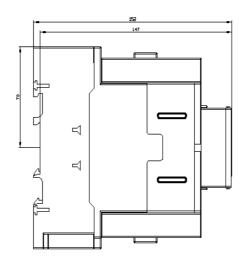
Characteristic: Tripping characteristics, I2t, Let-through current

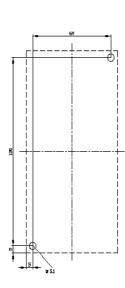
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AC20/char

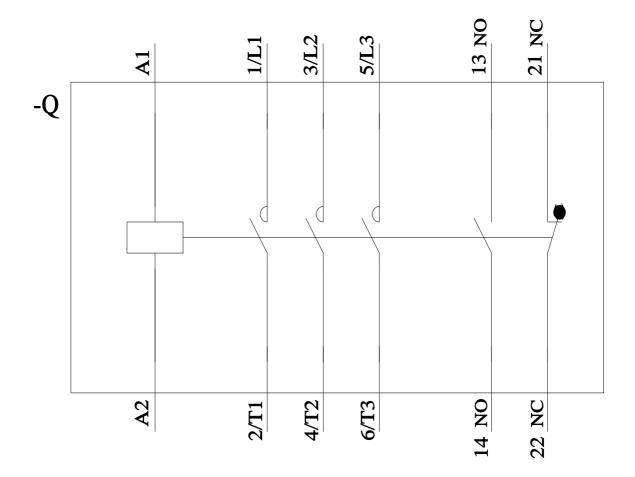
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AC20&objecttype=14&gridview=view1









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