SIEMENS

Data sheet 3RT2046-1AG20



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 110 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
eneral technical data	
size of contactor	S3
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	19.8 W
 at AC in hot operating state per pole 	6.6 W
 without load current share typical 	25 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	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)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	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	
 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 %

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
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	130 A
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	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
 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	
— 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
— up to 690 V for current peak value n=20 rated value• at AC-6a	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 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 110 V rated value — at 220 V rated value	80 A
— at 440 V rated value	4.5 A
	2.6 A
— at 600 V rated value	2.0 A
at 1 current path at DC-3 at DC-5 at 24 V reted value.	40.4
— at 24 V rated value	40 A 6 A
— at 60 V rated value	
— at 110 V rated value	2.5 A
— at 220 V rated value	1.4
— 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	7.4
— 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-	
at 400 V rated value	22 kW
• at 690 V rated value	27.4 kW
operating apparent power at AC-6a	21.7 (W
• up to 230 V for current peak value n=20 rated value	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 up to 600 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	22.4 N/A
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	
limited to 1 s switching at zero current maximum	1 725 A; Use minimum cross-section acc. to AC-1 rated value
	,

 limited to 5 s switching at zero current maximum 	1 297 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	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	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
at 60 Hz rated value	110 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	200 11.
• 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	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• 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	1
contact	
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	
operational current at DC-12at 24 V rated value	10 A
•	10 A 6 A
• at 24 V rated value	
at 24 V rated valueat 48 V rated value	6 A
 at 24 V rated value at 48 V rated value at 60 V rated value 	6 A 6 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value 	6 A 6 A 3 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	6 A 6 A 3 A 2 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	6 A 6 A 3 A 2 A 1 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13	6 A 6 A 3 A 2 A 1 A 0.15 A

• at 60 V rated value	2 A
• at 110 V rated value	1A
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]	
 for single-phase AC motor 	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
 for 3-phase AC motor 	
— 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
	·
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 0 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 0 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 • at the side — at the side — 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
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	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 0 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 • for grounded parts — forwards — upwards — upwards — at the side — 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 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 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 — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for lowe parts — forwards — upwards — upwards — 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 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 • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — 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 0 mm 10 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 — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for lowe parts — forwards — upwards — upwards — 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 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 — downwards — 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 • 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 • of or grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — 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 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 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 — at waste wide • for grounded parts — forwards — upwards — at the side • 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 • 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 Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main 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 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 — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • 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 • stranded • stranded with core end processing connectable conductor cross-section for auxiliary contacts connectable conductor cross-section for auxiliary contacts
 ◆ stranded ◆ finely stranded with core end processing 2.5 50 mm²
• finely stranded with core end processing 2.5 50 mm²
connectable conductor cross-section for auxiliary contacts
on mountain or management of the management of t
• solid or stranded 0.5 2.5 mm²
• finely stranded with core end processing 0.5 2.5 mm²
type of connectable conductor cross-sections
• for auxiliary contacts
— 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)
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section
• for main contacts 10 2
• for auxiliary contacts 20 14
Safety related data
product function
• mirror contact according to IEC 60947-4-1 Yes
• positively driven operation according to IEC 60947-5-1
• 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
• with low demand rate according to SN 31920 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 100 FIT 31920
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 Confirmations

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=3RT2046-1AG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AG20

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

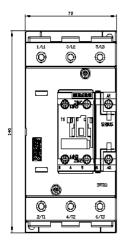
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AG20&lang=en

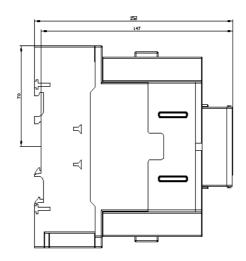
Characteristic: Tripping characteristics, I2t, Let-through current

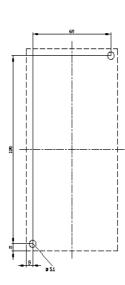
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AG20/char

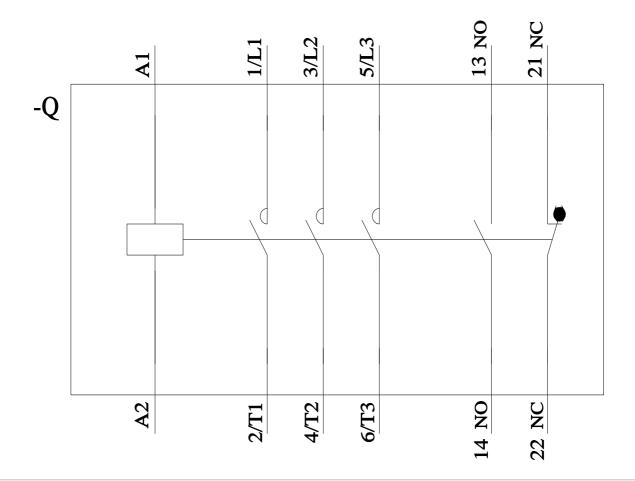
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AG20&objecttype=14&gridview=view1









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