## **SIEMENS**

Data sheet 3RT2018-1AF02



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00  $\,$ 

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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>	3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1 W
without load current share typical	1.5 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>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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)	10/01/2009
Weight	0.232 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	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
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
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	22 A
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	40.0
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
<ul><li>at 690 V rated value</li><li>at AC-4 at 400 V rated value</li></ul>	8.9 A 11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	10.27
— up to 230 V for current peak value n=20 rated value	9.6 A
— up to 400 V for current peak value n=20 rated value	9.6 A
— up to 500 V for current peak value n=20 rated value	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
at 690 V rated value	4.4 A
operational current  • at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A

a with 2 current noths in series at DC 4	
with 3 current paths in series at DC-1     at 24 V reted value.	20 A
<ul><li>— at 24 V rated value</li><li>— at 60 V rated value</li></ul>	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	0.51114
at 400 V rated value	2.5 kW
at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	3.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	6.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	8.3 kVA
up to 690 V for current peak value n=20 rated value	10.6 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.5 kVA
• up to 400 V for current peak value n=30 rated value	4.4 kVA
• up to 500 V for current peak value n=30 rated value	5.5 kVA
• up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
at AC-1 maximum     at AC-2 maximum	1 000 1/h 750 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	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	F 7 \/A
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil  • at 50 Hz	0.25
• at 50 Hz • at 60 Hz	0.25 0.25
• at 60 HZ closing delay	0.20
• at AC	9 35 ms
opening delay	V VV 1110
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 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	6.4
• at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value     at 600 V rated value	1.4
at 600 V rated value	0.15 A
operational current at DC-13	10 A
at 24 V rated value     at 48 V rated value	10 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	2 A 2 A
at 60 V rated value     at 110 V rated value	1.4
at 110 V rated value     at 125 V rated value	0.9 A
at 125 V rated value     at 220 V rated value	0.9 A 0.3 A
at 600 V rated value	0.3 A 0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	ridary stritoring per 100 million (17-4, 1 mile)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
at 1.0.125 Y lated Yalde	

<ul> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>by</li> <li>at 220/230 V rated value</li> <li>by</li> <li>at 460/480 V rated value</li> <li>bp</li> <li>at 575/600 V rated value</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k</li> <li>gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80k</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>t-/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN Eleght</li> <li>width</li> <li>45 mm</li> <li>depth</li> <li>73 mm</li> </ul>	A)
- at 200/208 V rated value	A)
- at 220/230 V rated value 5 hp - at 460/480 V rated value 10 hp - at 575/600 V rated value 10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k — with type of assignment 2 required gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80k • 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 for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting Yes  fastening method socrew and snap-on mounting onto 35 mm DIN rail according to DIN El height 58 mm  width	A)
- at 460/480 V rated value - at 575/600 V rated value 10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required 9G: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k  - with type of assignment 2 required 9G: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80k  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Ell  height 58 mm  width	A)
- at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k  • for short-circuit protection of the auxiliary switch required  gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80k  • 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 for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  height  58 mm  width	A)
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80k gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  height  58 mm  width	A)
Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  gG: 25A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80k  • 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 for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Ell  height  width  45 mm	A)
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  #/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  height  58 mm  width  45 mm	A)
• for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  #/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  fastening method  height  width  #58 mm  #45 mm	A)
— with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required  — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required  — with type of assignment 2 required — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  gG: 25A (690V,100kA), aM: 25A (690V,100kA), BS88: 25A (415V,80k  gG: 10 A (500 V, 1 kA)   Installation/ mounting/ dimensions  #/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mo	A)
— with type of assignment 2 required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Elegation  height  width  45 mm	A)
● for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Elegation  height  width  45 mm	
Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Ell height  width  45 mm	ward and
mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN Ell  height  width  45 mm	ward and
backward by +/- 22.5° on vertical mounting surface  fastening method side-by-side mounting  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN El  height  width  45 mm	ward and
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN El height 58 mm width 45 mm	
height58 mmwidth45 mm	
width 45 mm	N 60715
depth 73 mm	
required spacing	
with side-by-side mounting	
— forwards 10 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 0 mm	
• for grounded parts	
— forwards 10 mm	
— upwards 10 mm	
— at the side 6 mm	
— downwards 10 mm	
• for live parts	
— forwards 10 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 6 mm	
Connections/ Terminals	
type of electrical connection	
• for main current circuit screw-type terminals	
• for auxiliary and control circuit screw-type terminals	
• at contactor for auxiliary contacts Screw-type terminals	
• of magnet coil Screw-type terminals	
type of connectable conductor cross-sections	
• for main contacts	
— solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
— solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
• for AWG cables for main contacts 2x (20 16), 2x (18 14), 2x 12	
connectable conductor cross-section for main contacts	
• solid 0.5 4 mm²	
• stranded 0.5 4 mm²	
• finely stranded with core end processing 0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 4 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), 2x 4 mm²	
— solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         — finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	

AWG number as coded connectable conductor cross section	
• for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
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 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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





General Product Approval EMV Test Certificates Marine / Shipping

<u>KC</u>





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping other











Miscellaneous

other Railway Environment

<u>Confirmation</u> <u>Special Test Certificate</u>



Environmental Confirmations

## 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=3RT2018-1AF02

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AF02

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

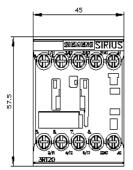
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AF02

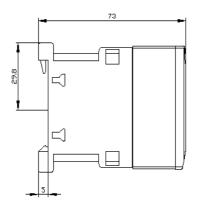
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-1AF02&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-1AF02&lang=en</a>

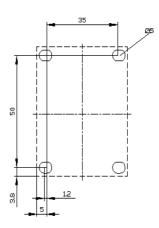
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AF02/char

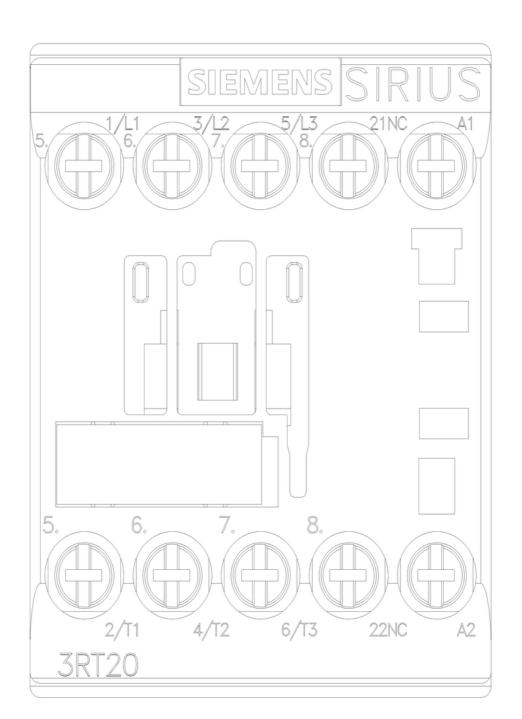
Further characteristics (e.g. electrical endurance, switching frequency)

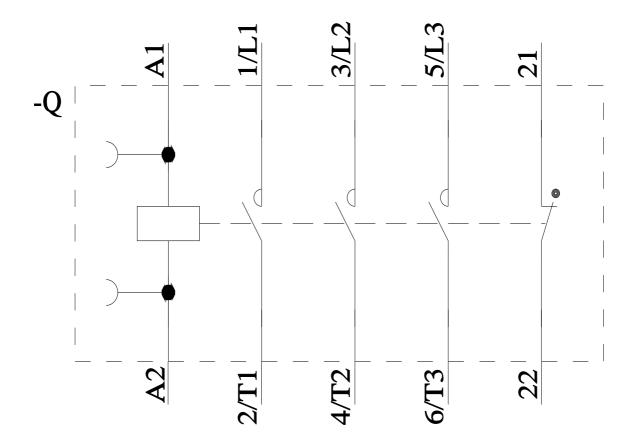
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