SIEMENS

Data sheet

3RT2046-1AR60



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, size: S3 removable auxiliary switch

4/1	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General 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 	8.8 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	1.727 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 %

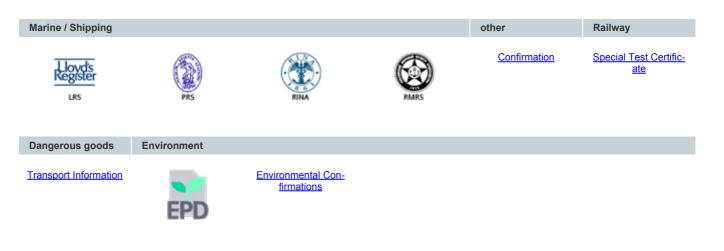
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	405 kg
global warming potential [CO2 eq] during manufacturing	7.66 kg
global warming potential [CO2 eq] during operation	399 kg
global warming potential [CO2 eq] after end of life	-1.19 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	130 A
 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 valueat AC-6a	95 A
 — 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 	
— 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	1.6 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 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
 with 2 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	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	45 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
	37 kW
4	
• 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
 up to 400 V for current peak value n=20 rated value 	58 kVA
 up to 500 V for current peak value n=20 rated value 	73 kVA
 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	
 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 	400 V
 at 60 Hz rated value 	400 440 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	
 at minimum rated control supply voltage at AC 	
— at 60 Hz	18 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	18 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	25 VA
• at 60 Hz	18 VA
• at 60 Hz inductive power factor with the holding power of the coil	18 VA
	18 VA 0.35
inductive power factor with the holding power of the coil	
inductive power factor with the holding power of the coil • at 50 Hz	0.35
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz	0.35
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay	0.35 0.41
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC	0.35 0.41 13 50 ms 10 21 ms
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time	0.35 0.41 13 50 ms 10 21 ms 10 20 ms
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism	0.35 0.41 13 50 ms 10 21 ms
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	0.35 0.41 13 50 ms 10 21 ms 10 20 ms
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	0.35 0.41 13 50 ms 10 21 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 A 6 A 3 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 A 6 A 3 A 2 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism <u>Auxiliary circuit</u> number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 A 6 A 3 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism <u>Auxiliary circuit</u> number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism <u>Auxiliary circuit</u> number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	0.35 0.41 13 50 ms 10 21 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A

 at 220 V rated value 	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
	0.1 A
at 600 V rated value	
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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
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
with type of assignment 2 required	kA) 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	99. 10 A (300 V, 1 M)
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and 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 EN 60715
height	140 mm
width	70 mm
depth	152 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
forwards	20 mm
	20 mm
— upwards	
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 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	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
 for AWG cables for main contacts 	2x (10 1/0), 1x (10 2)
connectable conductor cross-section for main contacts	
• solid	2.5 16 mm²
• stranded	6 70 mm²
 finely stranded with core end processing 	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
 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 mm ²), 2x (0.75 2.5 mm ²)
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
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	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	
 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 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
cofety device type according to IEC 64500.0	Туре А
salety device type according to IEC 61508-2	Туред
safety device type according to IEC 61508-2 Electrical Safety	
	IP20
Electrical Safety	
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates	IP20
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	IP20 finger-safe, for vertical contact from the front
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval	IP20 finger-safe, for vertical contact from the front
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Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 approvals Certificates General Product Approval	IP20 finger-safe, for vertical contact from the front Confirmation KC
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Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 pprovals Certificates General Product Approval General Product Approval EMV Test Certificat	IP20 finger-safe, for vertical contact from the front Confirmation KC res Marine / Shipping rtific- Special Test Certific-
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Approval EMV Test Certificat Type Test Certificat	IP20 finger-safe, for vertical contact from the front Confirmation KC tes Marine / Shipping fiffic- Special Test Certific-
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Approvals Certificates General Product Approval General Product Ap- proval EMV Test Certificat Type Test Certificat	IP20 finger-safe, for vertical contact from the front Confirmation KC tes Marine / Shipping fiffic- Special Test Certific-



Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2046-1AR60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AR60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AR60

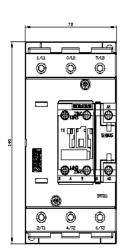
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

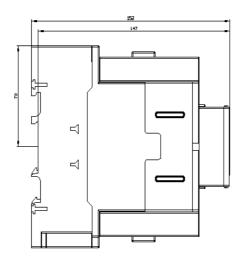
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AR60&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

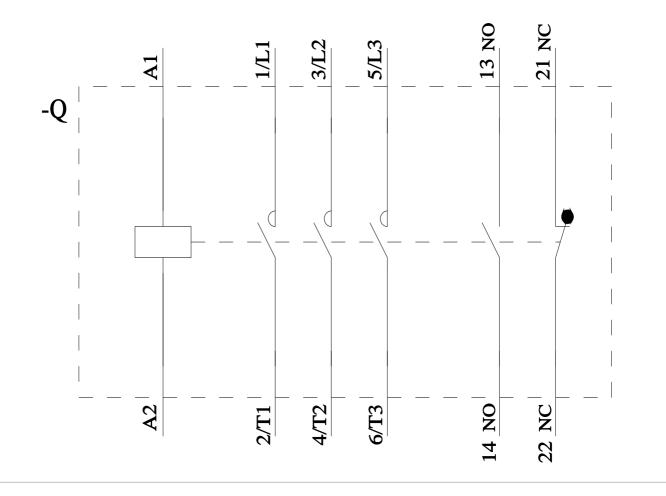
https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AR60/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2046-1AR60&objecttype=14&gridview=view1









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