SIEMENS

Data sheet 3RT2028-1AG20



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	9.6 W
 at AC in hot operating state per pole 	3.2 W
without load current share typical	2.7 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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)	10/01/2009
Weight	0.423 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	74.2 kg
Global Warming Potential [CO2 eq] during manufacturing	1.9 kg
Global Warming Potential [CO2 eq] during operation	72.4 kg
Global Warming Potential [CO2 eq] after end of life	-0.117 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	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	50 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	50 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value • at AC-3e	21 A
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
at AC-5b up to 400 V rated value	31.5 A
• at AC-6a	01.071
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	30.8 A
— up to 690 V for current peak value n=20 rated value	21 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	05.4
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A

with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	I.T.A.
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.0071
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	12.2 kVA
 up to 400 V for current peak value n=20 rated value 	21.3 kVA
up to 500 V for current peak value n=20 rated value	26.6 kVA
up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 kVA
short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	593 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum	341 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	162 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-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at BC Har rated value • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz • at AC • at 60 Hz • at AC • at 60 Hz • at 60 Hz • at AC • at 60 Hz • at AC • at 60 Hz •		
at AC-2 maximum 750 1/h 750 1/h		
• at AC-3 maximum • at AC-3 maximum • at AC-3 maximum 250 f/m • at AC-3 maximum 250 f/m Control circuit Control Vypo of Voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value 110 V operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60		1 000 1/h
* at AC-3e maximum	at AC-2 maximum	750 1/h
	at AC-3 maximum	750 1/h
Control citroutil Control AC type of voltage of the control supply voltage AC a 16 OHz rated value 110 V a 16 OHz rated value 110 V a 16 OHz rated value 110 V operating range factor control supply voltage rated value of magnet coil at AC 8 16 OHz a 16 OHz 0.8 1.1 apparent plck-up power of magnet coil at AC 81 KA a 16 OHz 79 VA inductive power factor with closing power of the coil 41 50 Hz a 15 OHz 0.74 a 15 OHz 0.74 a 15 OHz 8.5 VA inductive power factor with the holding power of the coil 8.5 VA inductive power factor with the holding power of the coil 8.5 VA inductive power factor with the holding power of the coil 9.25 a 15 OHz 0.25 a 16 OHz 0.25 a 16 OHz 0.28 closing dolay 8.4 GO Hz a 17 OF MS 8.4 Moms opening dolay 8.4 Moms a 18 OF MS 8.4 Moms opening time 10 10 ms	at AC-3e maximum	750 1/h
type of voltage of the control supply voltage at AC	at AC-4 maximum	250 1/h
Control supply voltage at AC	Control circuit/ Control	
• al 60 Hz rated value	type of voltage of the control supply voltage	AC
• at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz •	control supply voltage at AC	
Operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 0.8	at 50 Hz rated value	110 V
magnet coil af AC ■ at 60 Hz ■ at AC ■ an 40 ms ■ an 40	at 60 Hz rated value	110 V
• at 50 Hz • at 60 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz		
		0.0 4.4
apparent pick-up power of magnet coil at AC		
		0.65 1.1
• at 60 Hz		04.1/A
a d t 50 Hz		
• at 50 Hz • at 60 Hz • at 60 Hz paperent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at AC • at 4C •		19 VA
		0.72
apparent holding power of magnet coil at AC	****	
• at 50 Hz • at 60 Hz • at 60 Hz Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz closing delay • at AC • arcing time • arcing		0.17
• at 60 Hz		10.5 VA
inductive power factor with the holding power of the coil		
e at 50 Hz e at 60 Hz e at 60 Hz closing delay e at AC opening delay e at AC opening delay e at AC arcing time control version of the switch operating mechanism number of NC contacts for auxiliary contacts instantaneous contact 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 1 0perational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 2 A A A A A A A A A A A A A A A A A A A		0.5 VA
e at 60 Hz 0.28 closing delay e at AC 840 ms opening delay e at AC 416 ms arcing time 1010 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 e at 230 V rated value 3 A 3 A 4 4 6 4 4 0 V rated value 2 A 4 6 9 0 V rated value 1 A 6 0 0 V rated value 1 A 6 0 0 V rated value 6 A 6 A 6 A 6 6 A 6		0.25
e at AC		
● at AC 8 40 ms opening delay ● at AC 4 16 ms arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 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 10 A operational current at AC-15 ● at 230 V rated value 10 A ● at 400 V rated value 2 A ● at 500 V rated value 1 A operational current at DC-12 ● at 24 V rated value 6 A ● at 48 V rated value 6 A ● at 110 V rated value 6 A ● at 110 V rated value 7 A ● at 125 V rated value 7 A ● at 125 V rated value 9 A ● at 125 V rated value 1 A ● at 120 V rated value 1 A ● at 110 V rated value 1 A ● at 110 V rated value 1 A ● at 120 V rated value 1 A ● at 24 V rated value 1 A ● at 48 V rated value 1 A ● at 48 V rated value 1 A ● at 48 V rated value 2 A		0.20
e at AC		8 40 ms
■ at AC arcing time		
arcing time		4 16 ms
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 10 A operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 800 V rated value		
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 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 110 V rated value • at 48 V rated value • at 1220 V rated value • at 600 V rated value • at 124 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value	-	Standard A1 - A2
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A 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 48 V rated value • at 10 A • at 10 A • at 48 V rated value • at 600 V rated value	Auxiliary circuit	
contact operational current at AC-12 maximum 10 A operational current at AC-15		1
operational current at AC-15 • at 230 V rated value 10 A • at 400 V rated value 3 A • at 500 V rated value 1 A • at 690 V rated value 10 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A	•	1
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A operational current at DC-12 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 24 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 24 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 20 V rated value at 20 V rated value 		10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A 1 A operational current at DC-12 10 A at 24 V rated value 6 A 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 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	operational current at AC-15	
 at 500 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value 		
● at 690 V rated value operational current at DC-12 ● at 24 V rated value ● at 48 V rated value ● at 60 V rated value ● at 110 V rated value ● at 110 V rated value ● at 125 V rated value ● at 220 V rated value ● at 600 V rated value ● at 600 V rated value ● at 800 V rated value ● at 24 V rated value ● at 24 V rated value ● at 24 V rated value ● at 48 V rated value ● at 60 V rated value		
operational current at DC-12 • at 24 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 0.15 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 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 at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value 		1 A
 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 at 600 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 60 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 at 600 V rated value at 24 V rated value 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 at 24 V rated value at 48 V rated value at 60 V rated value 		
 at 125 V rated value 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 at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value 		
 at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value 		
 at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value 2 A at 60 V rated value 		
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 24 V rated value at 48 V rated value at 60 V rated value 2 A 		U.15 A
 at 48 V rated value at 60 V rated value 2 A 2 A 	·	40.4
• at 60 V rated value 2 A		
at 110 V rated value		
	at 110 V rated value	1 A
• at 125 V rated value 0.9 A		
• at 220 V rated value 0.3 A		
• at 600 V rated value 0.1 A		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	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	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	217
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	o np
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	25 hp
— at 575/600 V rated value	25 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A00071 000
design of the fuse link	
for short-circuit protection of the main circuit with two of coordination 1 required.	aC: 125A (600\/ 100kA) aM: 50A (600\/ 100kA) BC00: 105A (445\/ 00\A)
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
for short-circuit protection of the auxiliary switch required Society Protection Pro	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 side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	85 mm
width	45 mm
depth	97 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 (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
— finely stranded with core end processing• for AWG cables for main contacts	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8)
for AWG cables for main contacts	
for AWG cables for main contacts connectable conductor cross-section for main contacts	2x (16 12), 2x (14 8)
for AWG cables for main contacts connectable conductor cross-section for main contacts solid	2x (16 12), 2x (14 8) 1 10 mm ²

- polid ou otropodod	0.5 2.5 mm²
solid or stranded	
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	16 8
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 	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	
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

General Product Approval







Confirmation





General Product Approval EMV Test Certificates Marine / Shipping

<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping other







<u>ate</u>





Miscellaneous

other Railway Environment

<u>Confirmation</u> <u>Confirmation</u> <u>Special Test Certific-</u>



Environmental Confirmations

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=3RT2028-1AG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1AG20

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

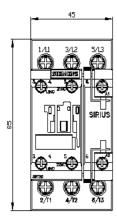
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AG20

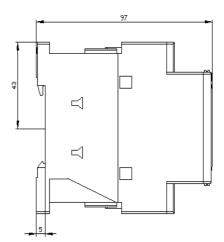
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1AG20&lang=en

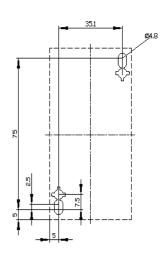
Characteristic: Tripping characteristics, I2t, Let-through current

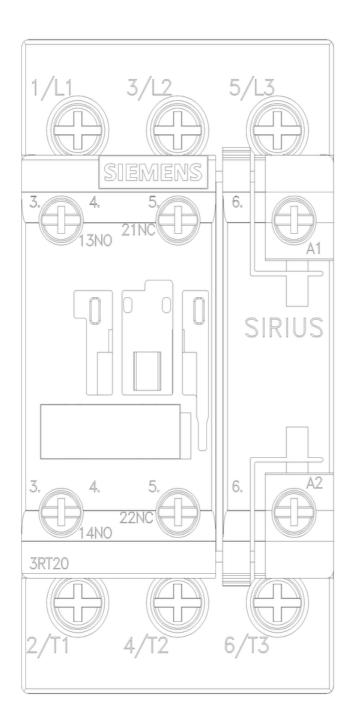
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AG20/char

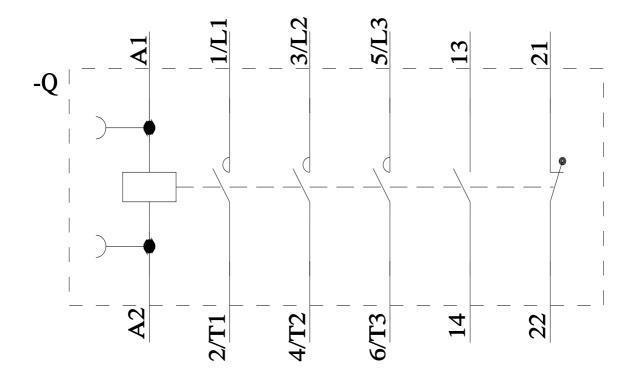
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1AG20&objecttype=14&gridview=view1











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