SIEMENS

Data sheet 3RT2028-1AF04



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, removable auxiliary switch

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	No
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	2.5 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)	
Weight	0.474 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 managed mining Global Warming Potential [CO2 eq] during operation	72.4 kg
Global Warming Potential [CO2 eq] after end of life	-0.117 kg
Main circuit	o. Tri Ng
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	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
at AC-3 — at 400 V rated value	38 A
— at 400 V rated value — at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— 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	
— 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 valueat AC-6a	21 A
— 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 value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	40.4
at 400 V rated value at 600 V rated value	12 A
at 690 V rated value operational current	12 A
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	1A
— 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	
— 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 — at 60 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value • at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 220 V rated value — at 220 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 60 V rated value —	
at 110 V rated value	
at 220 V rated value	
at 440 V rated value	
■ at 1 courrent path at DC-3 at DC-5 ─ at 24 V rated value ─ at 60 V rated value ─ at 60 V rated value ─ at 60 V rated value ─ at 40 V rated value ─ at 400 V rated value ─ at 400 V rated value ─ at 400 V rated value ─ at 600 V rated value ─ at 600 V rated value ○ at 60 V rated value ○ at 20 V rated value ○ at 40 V rated value ○ at 40 V rated value ○ at 40 V rated value ○ at 24 V rated value ○ at 60 V rated value ○ at 24 V rated value ○ at 22 V rated value ○ at 22 V rated value ○ at 40 V rated value ○ at 22 V rated value ○ at 40 V rated value ○ at AC-3 ○ at 230 V rated value ○ at 600 V rated value ○ at 50 V rated value ○ at 600 V rated value	
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — o.09 A — at 260 V rated value — o.09 A — at 60 V rated value — o.06 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 1110 V rated value — at 220 V rated value — at 400 V rated value — at 600 V rated value — o.16 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — o.16 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 400 V rated value — o.6A — at 220 V rated value — o.6A — at 230 V rated value — at 600 V r	
- at 24 V rated value 5 A	
at 60 V rated value 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	
at 220 V rated value	
- at 440 V rated value	
■ with 2 current paths in series at DC-3 at DC-5 ■ at 24 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 110 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 710 V rated value ■ at 800 V rated value ■ at 800 V rated value ■ at 110 V rated value ■ at 120 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at AC-3 ■ at 230 V rated value ■ at 800 V rated value ■ at 800 V rated value ■ at 800 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 690 V rated value ■ at	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A — at 10 V rated value 15 A — at 110 V rated value 3A A — at 110 V rated value 3A A — at 220 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 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 10 A — at 440 V rated value 0.6 A — at 440 V rated value 0.6 A — at 600 V rated value 0.6 A — at 600 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 18.5 kW — at 500 V rated value 18.5 kW • at 690 V rated value 18.5 kW • at 690 V rated value 18.5 kW • at 690 V rated value 18.5 kW • at 400 V rated value 18.5 kW • at 690 V rated value 18.5 kW	
at 24 V rated value 35 A at 10 V rated value 15 A at 110 V rated value 35 A at 110 V rated value 32 A at 440 V rated value 0.27 A at 60 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 110 V rated value 35 A at 110 V rated value 35 A at 110 V rated value 35 A at 120 V rated value 10 A at 440 V rated value 10 A at 460 V rated value 11 W at 460 V rated value 15 A at 220 V rated value 16 A at 220 V rated value 17 B at 30 V rated value 18.5 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 690 V rated value 18.5 KW at 690 V rated value 18.5 KW at 400 V rated value 18.5 KW at 400 V rated value 18.5 KW at 690 V rated value 18.5 KW	
- at 60 V rated value	
- at 110 V rated value	
- at 220 V rated value	
- at 440 V rated value - at 600 V rated value - at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 60 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value	
- at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 60 V rated value 35 A - at 110 V rated value 35 A - at 120 V rated value 10 A - at 440 V rated value 0.6 A - at 600 V rated value 0.6 A - at 600 V rated value 0.6 A - at 440 V rated value 10 A - at 440 V rated value 10 A - at 450 V rated value 11 kW - at 400 V rated value 18.5 kW - at 500 V rated value 18.5 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 11 kW - at 500 V rated value 12.5 kW • at 690 V rated value 13.5 kW • at 690 V rated value 14.5 kW - at 500 V rated value 15.5 kW - at 690 V rated value 16.5 kW - at 690 V rated value 18.5 kW • at 690 V rated value 18.5 kW	
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value	
at 24 V rated value 35 A at 60 V rated value 35 A at 110 V rated value 35 A at 110 V rated value 10 A at 220 V rated value 0.6 A at 840 V rated value 0.6 A at 800 V rated value 0.6 A at 440 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 400 V rated value 18.5 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 690 V rated value 18.5 kW at 400 V rated value 18.5 kW at 400 V rated value 18.5 kW at 690 V rated value 18.5 kW	
- 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 110 V rated value 10 A - at 220 V rated value 0.6 A - at 600 V rated value 0.6 A operating power	
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 690 V rated value 18.5 kW ■ at AC-3e at 230 V rated value 18.5 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 11 kW at 400 V rated value 11 kW at 400 V rated value 11 kW at 500 V rated value 18.5 kW at 690 V rated value 18.5 kW at 690 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 ■ 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	
at 600 V rated value 0.6 A operating power	
■ at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value ■ at AC-3e — at 230 V rated value ■ at AC-3e — 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 690 V rated value ④ at 400 V rated value ④ at 690 V rated value ● at 690 V rated value	
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 at 690 V rated value 18.5 kW at 690 V rated value 6 kW ■ at 400 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 ■ 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	
- at 400 V rated value - 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 690 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ at 690 V rated value	
- at 500 V rated value - 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 690 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value at 690 V rated value operating apparent power at AC-6a ■ up to 230 V for current peak value n=20 rated value 18.5 kW	
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value 18.5 kW - at 690 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • 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	
at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 400 V rated value at 690 V rated value 10.3 kW operating apparent power at AC-6a at 900 V rated value 12.2 kVA	
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 400 V rated value at 690 V rated value at 690 V rated value to 230 V for current peak value n=20 rated value 11 kW 18.5 kW 18.5 kW 6 kW 10.3 kW	
- at 400 V rated value - at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 18.5 kW 6 kW 10.3 kW	
- at 500 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 400 V rated value at 690 V rated value to 230 V for current peak value n=20 rated value 18.5 kW 6 kW 10.3 kW	
— at 690 V rated value operating power for approx. 200000 operating cycles at AC- • at 400 V rated value • at 690 V rated value • 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	
operating power for approx. 200000 operating cycles at AC- 1	
• at 400 V rated value	
 at 400 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 12.2 kVA 	
 at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 12.2 kVA 	
operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 12.2 kVA	
• up to 230 V for current peak value n=20 rated value 12.2 kVA	
The state of the s	
■ DO TO ACID VIOLEDITURAL DESK VAIDE DEZO TALED VAIDE \\ \text{TT \cdot KV\\Delta} \\ TT \cdot K	
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 21.3 kVA 26.6 kVA 	
• up to 690 V for current peak value n=20 rated value 25 kVA 25 kVA	
operating apparent power at AC-6a	
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 14.2 kVA 18.5 kVA 	
• up to 500 V for current peak value n=30 rated value • 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 °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-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
 at AC-3e maximum 	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
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.82
apparent holding power of magnet coil at AC	
● at 50 Hz	9.8 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
closing delay	
• 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	2
contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• 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	6 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
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	34 A
at 600 V rated value	27 A
yleided mechanical performance indi	
yielded mechanical performance [hp] • for single-phase AC motor	

-1.440/400 V11.1-1	Q.h.,
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— 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 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 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	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	85 mm
width	45 mm
depth	141 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	10 111111
— forwards	10 mm
	10 mm
— upwards	
— 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
 for AWG cables for main contacts 	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
 finely stranded with core end processing 	1 10 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 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	
→ IOI AVVO CADICS IOI AUXIIIALY COTILACIS	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 40 % • with low demand rate according to SN 31920 • 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







Miscellaneous

other

Confirmation

other

Railway

Environment

Confirmation

Special Test Certificate



Environmental Confirmations

urther 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=3RT2028-1AF04

Cax online generator

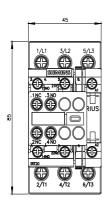
 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2028-1AF04$

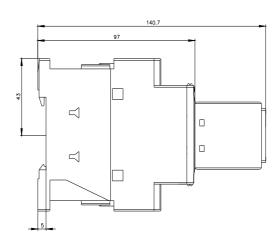
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AF04

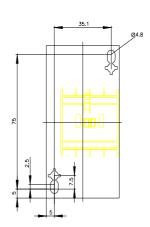
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1AF04&lang=en

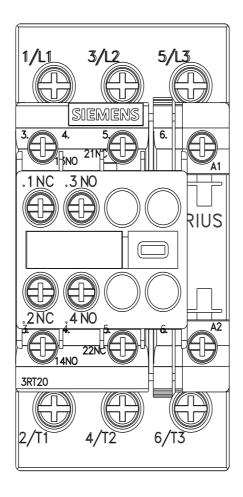
Characteristic: Tripping characteristics, I2t, Let-through current

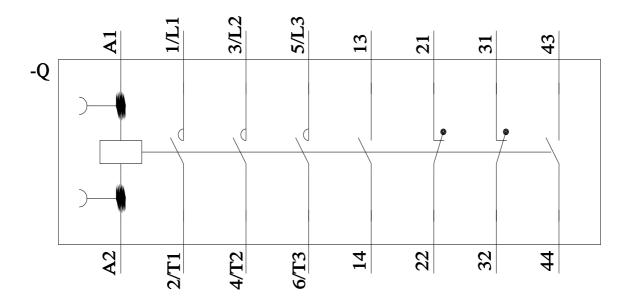
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1AF04&objecttype=14&gridview=view1











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