SIEMENS

Data sheet 3RT2037-1AG60



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 100 V AC, 50 Hz / 100-110 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

product brand name product designation product type designation	SIRIUS Power contactor
	Power contactor
product type designation	
· · · · · · · · · · · · · · · · · · ·	3RT2
eneral technical data	
size of contactor	S2
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 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	6.5 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014
nbient conditions	
nstallation 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 %
nvironmental footprint	

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during operation	233 kg
Global Warming Potential [CO2 eq] after end of life	-0.635 kg
Main circuit	olooo 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 	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
 up to 690 V at ambient temperature 60 °C rated value 	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-3e — at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value — at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
at 1 current path at DC-1 at 24 V reted value.	55 A
— at 24 V rated value— at 60 V rated value	55 A 23 A
— at 50 V rated value — 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	
— at 60 V rated value	55 A
— at 110 V rated value	55 A 45 A
— at 220 V rated value	45 A
	45 A 45 A
— at 220 V rated value	45 A 45 A 5 A

at 24 V rated value	55 A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value — at 440 V rated value	45 A 2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	05.4
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1.4
— at 440 V rated value	0.1 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
 at AC-2 at 400 V rated value 	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	14.7 kW
• at 690 V rated value	20 kW
 operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	22.6 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	39.4 kVA
up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value	49.2 kVA
	56.1 kVA
up to 690 V for current peak value n=20 rated value	OU. I NVA
operating apparent power at AC-6a	15.1 kVA
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	26.2 kVA
up to 500 V for current peak value n=30 rated value	32.8 kVA
up to 690 V for current peak value n=30 rated value Short time withstand current in cold operating state up to	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	336 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h

type of voltage of the control supply voltage at AC Control supply voltage at AC • at 50 Hz rated value 100 V • at 50 Hz rated value 100 110 V operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.85 1.1 • at 50 Hz 188 VA • at 50 Hz 188 VA • at 50 Hz 0.69 • at 50 Hz 0.69 • at 80 Hz 0.69 • at 80 Hz 1.7.2 VA • at maximum rated control supply voltage at AC 17.2 VA • at maximum rated control supply voltage at AC 17.2 VA • at 50 Hz 15.5 VA • at 50 Hz 16.5 VA • at 50 Hz 16.5 VA • at 50 Hz 16.5 VA • at 50 Hz 10 80 ms • at 50 Hz 10 80 ms • at 60 Hz 10 80 ms • at 60 Hz 10 80 ms • at 50 Hz 10 80 ms • at 60 Hz 10 18 ms • at 60 Hz 10 1		
a d AC-2 maximum		
# al AC-3 maximum		
a d AC-3 maximum	• at AC-2 maximum	400 1/h
### ACA - maximum Type of voltage at AC 100	at AC-3 maximum	700 1/h
Section Sect	at AC-3e maximum	700 1/h
type of voltage of the control supply voltage at AC 4 (50 htt zet do value) 100 V a 15 0 htt zet do value 100 - 110 V a 15 0 htt zet do value 100 - 110 V orparating range factor control supply voltage rated value of magnet coil at AC 4 (50 htt zet) a 15 0 htt zet 0.8 - 1.1 a 15 0 htt zet 180 htt zet a 15 0 htt zet 188 VA inductive power factor with closing power of the coil 2 (21 VA) a 15 0 htt zet 0.89 a 15 0 htt zet 0.89 a 15 0 htt zet 0.85 a 15 0 htt zet 0.89 a 15 0 htt zet 0.89 a 15 0 htt zet 0.89 a 15 0 htt zet 0.85 a paparent holding power factor with coil supply voltage at AC 2 (20 VA) a 15 0 htt zet 10 5 VA a 15 0 htt zet	at AC-4 maximum	200 1/h
	Control circuit/ Control	
• at 80 Hz rated value • at 80 Hz rated value operating range factor control supply voltage rated value of magnet coll at AC • at 80 Hz • at 8	type of voltage of the control supply voltage	AC
• at 60 Hz rated value 100 110 V operating angle factor control supply voltage rated value of agnet coll at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 180 Mz • at 50 Hz 188 VA • at 50 Hz 0.69 • at 50 Hz 0.69 • at 50 Hz 0.69 • at 60 Hz 17.2 VA • at minimum rated control supply voltage at AC 17.2 VA • at 60 Hz 17.2 VA • at maximum rated control supply voltage at AC 17.2 VA • at 50 Hz 18.5 VA • at 50 Hz 15.5 VA • at 50 Hz 18.5 VA • at 50 Hz 0.39 • at AC 10 80 ms • pening delay 10 80 ms • at AC 10 80 ms • pening delay 10 80 ms • at AC 10 80 ms • pening accurated AC-12 maximum 10 A • at 200 V rated value	control supply voltage at AC	
Control grange factor control supply voltage rated value of magnet coll at CL 0.8 1.1 0.85 1.1	at 50 Hz rated value	100 V
magnet coll at AC		100 110 V
• al 15 Hz 0,851.1 • al 50 Hz 0,851.1 • al 50 Hz 188 VA • al 50 Hz 188 VA • al 50 Hz 0,851.1 • al 50 Hz 188 VA • al 50 Hz 0,85		
• at 50 Hz 0.851.1 • at 50 Hz 212 VA • at 50 Hz 188 VA • at 50 Hz 0.69 • at 60 Hz 0.69 • at 60 Hz 0.55 • at minimum rated control supply voltage at AC 17.2 VA • at maximum rated control supply voltage at AC 17.2 VA • at 60 Hz 17.2 VA • at 60 Hz 18.5 VA • at 60 Hz 18.5 VA • at 60 Hz 18.5 VA • at 60 Hz 0.36 • at 60 Hz 0.39 closing delay 0.39 • at 60 Hz 0.39 closing delay 10 80 ms • at 160 Hz 10 80 ms control version of the switch operating mechanism 10 80 ms control version of the switch operating mechanism 10 18 ms control version of the switch operating mechanism 1 contact 1 contact 1 contact 1 at 230 V rated value 10 A at 230 V rated value 10 A	-	0.8 1.1
### ### ### ### ### ### ### ### ### ##		
at 50 Hz		0.65 1.1
• al 60 Hz Inductive power factor with closing power of the coil al 60 Hz 0.69 0.65		212 \/ \Delta
Maturity power factor with closing power of the coll		
		100 V/
		0.69
# at minimum rated control supply voltage at AC		
• at minimum rated control supply voltage at AC		
- at 60 Hz		
• at maximum rated control supply voltage at AC	,	17.2 VA
—a t 60 Hz apparent holding power of magnet coil at AC a t 60 Hz b 16.5 VA 16		<u></u>
a 150 Hz		17.2 VA
• at 50 Hz • at 60 Hz • at 60 Hz otat 50 Hz otat 50 Hz otat 50 Hz otat 50 Hz otat 60		
inductive power factor with the holding power of the coil • at 50 Hz		18.5 VA
• at 50 Hz • at 60 Hz closing delay • at AC	• at 60 Hz	16.5 VA
• at 50 Hz • at 60 Hz closing delay • at AC	inductive power factor with the holding power of the coil	
Description		0.36
● at AC 10 80 ms opening delay ● at AC 10 18 ms arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 vixiliary 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 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 2 A ● at 690 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 48 V rated value 6 A ● at 110 V rated value 6 A ● at 110 V rated value 9 A ● at 125 V rated value 9 A ● at 125 V rated value 1 A ● at 220 V rated value 1 A ● at 220 V rated value 1 A ● at 320 V rated value 1 A ● at 424 V rated value 1 A ● at 425 V rated value 1 A ● at 427 V rated value 1 A ● at 427 V rated value 1 A ● at 48 V rated value 10 A	• at 60 Hz	0.39
opening delay	closing delay	
● at AC 10 18 ms arcing time 10 20 ms Standard A1 - A2 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 number of NO 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 10 A operational current at AC-15 ● at 230 V rated value 10 A ● at 4500 V rated value 2 A ● at 500 V rated value 10 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 9 A ● at 125 V rated value 1 A ● at 125 V rated value 1 A ● at 220 V rated value 1 A ● at 220 V rated value 1 A ● at 600 V rated value 10 A	• at AC	10 80 ms
arcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2WXIIIary circuitImmber of NC contacts for auxiliary contacts instantaneous contactnumber of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15Image: Contact of the color	opening delay	
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 • 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 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 30 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value	• at AC	10 18 ms
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 500 V rated value • at 690 V rated value • at 690 V rated value • at 4 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 30 V rated value • at 30 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	arcing time	10 20 ms
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	control version of the switch operating mechanism	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 500 V rated value • at 690 V rated value • at 690 V rated value • at 8V rated value • at 4 V rated value • at 10 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 20 V rated value • at 3 A • at 25 V rated value • at 3 A • at 25 V rated value • at 3 A • at 25 V rated value • at 20 V rated value • at 48 V rated value • at 20 V rated value	Auxiliary circuit	
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 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 80 V rated value • at 60 V rated value • at 220 V rated value • at 60 V rated value • at	•	1
operational current at AC-12 maximum operational current at AC-15		1
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 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 200 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 24 V rated value 	operational current at AC-12 maximum	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 0.15 A at 24 V rated value 10 A at 48 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 8 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 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 230 V rated value	10 A
● at 690 V rated value 1 A operational current at DC-12 10 A ● at 24 V rated value 6 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 10 A ● at 48 V rated value 2 A	• at 400 V rated value	3 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 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 10 A • at 48 V rated value 2 A	• at 500 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 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value 2 A 	at 690 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 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value 2 A 	operational current at DC-12	
 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 out 600 V rated value out 24 V rated value at 24 V rated value at 48 V rated value 2 A 	• at 24 V rated value	10 A
 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 2 A 	• at 48 V rated value	6 A
 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 2 A 		
 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 2 A 	• at 110 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 2 A 2 A	• at 125 V rated value	
operational current at DC-13 • at 24 V rated value	at 220 V rated value	1 A
 at 24 V rated value at 48 V rated value 2 A 		0.15 A
• at 48 V rated value 2 A	-	
at 60 V rated value 2 A		
	at 60 V rated value	2 A

* all 10 V rated value 1 A 0.0 A		
### 220 V rated value	• at 110 V rated value	1 A
1600	at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts	at 220 V rated value	0.3 A
### Support	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 Y risted value • at 80 V risted value • at 80 V risted value • 10 T risted va	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
en 48 00 V rated value	UL/CSA ratings	
• at 200 V rated value 52 Å	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance (hg) • of single-phase AC motor — at 200 V rated value — at 220 V rated value — at 220 V rated value — at 2200 230 V rated value — at 2200,230 V rated value — at 2200,230 V rated value — at 675/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — of short-circuit protection of the main circuit — with type of assignment 2 required — of short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — with type of assignment 2 required — sow and shape-or mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1+2.2.8° on vertical mounting surface; can be titled forward and backward by 1-2.2.8° on vertical mounting surface; can be titled forward and backward by 1-	 at 480 V rated value 	65 A
• for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/280 V rated value • of 3-phase AC motor — at 200/280 V rated value — at 400/280 V rated value — at 400/880 V rated value — at 460/880 V rated value — at 460/880 V rated value — at 475/600 V rated value — 50 hp — at 575/600 V rated value — 50 hp — of single-protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required — of short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — with type of coordination 1 required — so short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — so short-circuit protection of the auxiliary switch required — soleward by 4/-225 on vertical mounting surface; can be tilted forward and backward by 4/-225 on vertical mounting surface; can be tilted forward and backward by 4/-225 on vertical mounting surface; can be tilted forward and backward by 4/-225 on vertical mounting surface; for such as a surface and a s	 at 600 V rated value 	52 A
al 101/120 V rated value	yielded mechanical performance [hp]	
at 230 V rated value for 5-phase AC mode value at 200/208 V rated value at 220/230 V rated value at 250/230 V rated value at 575/600 V rated value with type of susignment 2 required with type of oordination 1 required with type of oordination 1 required with type of assignment 2 required vor short-crouit protection of the auxiliary switch required of short-crouit species on the short-crouit species on the short-	 for single-phase AC motor 	
• for 3-phase AC motor — at 200230 V rated value — at 460,480 V rated value — at 460,480 V rated value — at 575600 V rated value — st 50 hp contact rating of auxiliary contacts according to UL Short-circuit protection 4609 / F800 Short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fastening method sateriag method sa	— at 110/120 V rated value	5 hp
• for 3-phase AC motor — at 200/280 V rated value — at 460/480 V rated value — 34 460/480 V rated value — 55 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 assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fastening method screw and snap on mounting onto 35 mm DIN rail according to DIN EN 60715 114 mm very first of space and space	— at 230 V rated value	10 hp
	for 3-phase AC motor	·
	·	20 hp
		·
- at 575/600 V rated value 50 hp A600 / P800 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • with size of the said of th		·
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 • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch 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 forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounting surface: can be tilted forward and backward by 4*, 22.5* on vertical mounti		·
Short-circuit protection design of the fuse link of short-circuit protection of the main circuit with type of coordination 1 required gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) GF short-circuit protection of the auxiliary switch required gG: 125A (690 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100A (415 V, 80 kA) gG: 125A (690 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100A (415 V, 80 kA) gG: 10A (600 V, 1 kA) gG: 10A (600 V, 10A kA), aM: 63A (690 V, 100 kA), aM: 63A (690 V, 10kA), aM: 63A (690 V, 1		
design of the fuse link		7,000 71 000
• 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit power and short protection of the auxiliary switch required • for main current circuit • for main current circuit • for main current circuit • of magnet coil • for for contactable conductor cross-sections • for main contacts		
Section Sect	•	
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 filted forward and backward by +/- 22.5" on vertical mounting surface. fastening method height width 55 mm depth 130 mm required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - odownwards - odownwards - other side - downwards - at the side - downwards - at the side - downwards - at the side - downwards - to mm • for live parts - forwards - upwards - to mm • for live parts - forwards - upwards - to mm • for main current circuit • for auxiliary and control circuit • of auxiliary and control circuit • of auxiliary and control circuit • of maject coll - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts - solid or stranded - finely stranded with core end processing • for faWG cables for main contacts - 2x (1 25 mm²), 1x (1 35 mm²) - 2x (1 25 mm²), 1x (1 35 mm²) • for faWG cables for main contacts - 2x (1 25 mm²), 1x (1 35 mm²)	•	~C. 250 A (200 V 400 kA) ~A4. 400 A (200 V 400 kA) D200 200 A (4/5 V 20
• for short-circuit protection of the auxiliary switch required 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. ##-180" rotation possible on vertical mounting surface. ##-180" and sap-on mounting surface. ##-180" rotation possible on vertical mounting surface. ##-180" and sap-on mounting surface. ##-180" rotation possible on vertical mounting surface. ##-180"		kA)
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 114 mm width 55 mm depth 130 mm required spacing with side-by-side mounting — forwards — upwards — 10 mm — downwards — 10 mm — for grounded parts — for grounded parts — at the side — downwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm — to rive parts — for live parts — for live parts — forwards — upwards — 10 mm — the side — downwards — 10 mm — the side — downwards — 10 mm — the side — for live parts — forwards — 10 mm — the side — of main current circuit — for main current circuit — of main current circuit — of main current circuit — of magnet coil type of connectable connection • for main contacts — solid or stranded — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for main contacts — finely stranded with core end processing • for AWG cables for main contacts		
mounting position #/180° rotation possible on vertical mounting surface; can be titled forward and backward by #/- 22.5° on vertical mounting surface; can be titled forward and backward by #/- 22.5° on vertical mounting surface; can be titled forward and backward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can be titled forward by #/- 22.5° on vertical mounting surface; can vertical mounting surfac	·	gG: 10 A (500 V, 1 kA)
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 width depth 114 mm 130 mm required spacing • with side-by-side mounting — forwards — upwards — upwards — odwnwards — at the side • for grounded parts — forwards — upwards — upwards — 10 mm — at the side • for mive parts — forwards — downwards — 10 mm • for mive parts — forwards — upwards — to mm • for live parts — forwards — upwards — upwards — to mm • for mive parts — forwards — upwards — to mm • for mine contacts — at the side — downwards — to mm • for mine correct circuit • for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts - for WG cables for main contacts 2x (1 25 mm²), 1x (1 50 mm²) - for MVG cables for main contacts 2x (1 25 mm²), 1x (1 50 mm²) - for RWG cables for main contacts 2x (1 25 mm²), 1x (1 50 mm²) - for AWG cables for main contacts 2x (1 25 mm²), 1x (1 50 mm²) - for AWG cables for main contacts 2x (1 25 mm²), 1x (1 50 mm²)	Installation/ mounting/ dimensions	
fastening method height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — of regrounded parts — forwards — upwards — forwards — the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — upwards — 10 mm • for main current circuit • for auxilliary and control circuit • of main current circuit • of main contacts • for anic stranded — finely stranded with core end processing • for AWG cables for main contacts • for main contacts	mounting position	
height	fastening method	, and the second
width 55 mm depth 130 mm required spacing 10 mm • with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm • for grounded parts 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — upwards 10 mm — at the side 6 mm Connections/ Terminals 10 mm Legential connection 6 mm Connections/ Terminals 5 crew-type terminals • for auxiliary and control circuit screw-type terminals • for main contacts Screw-type terminals • for main contacts 2x (1 25 mm²), 1x (1 35 mm²) <td></td> <td></td>		
depth 130 mm		
required spacing		
 with side-by-side mounting forwards upwards downwards downwards mm at the side for grounded parts for grounded parts upwards upwards upwards at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm for live parts for ownwards upwards upwards 10 mm upwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit at contactor for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil screw-type terminals type of connectable conductor cross-sections for main contacts Screw-type terminals type of stranded ax (1 35 mm²), 1x (1 50 mm²) finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 	<u> </u>	100 11111
forwards		
- upwards 10 mm 10	,	10 mm
- downwards - at the side 0 mm • for grounded parts - forwards - upwards 10 mm - at the side 0 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 10 mm - finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing • for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) - for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) - for AWG cables for main contacts		
- 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 • for live parts - forwards 10 mm - upwards 10 mm - upwards 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 • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • for AWG cables for main contacts 2x (18 2), 1x (18 1)	·	
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- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 6 mm Connections/ Terminals type of electrical connection • for main current 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 or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • for AWG cables for main contacts 2x (18 2), 1x (18 1)		UIIIII
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 2x (1 35 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)		40
- at the side - 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 • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 2 x (1 25 mm²), 1x (1 50 mm²) - x x (18 2), 1x (18 1)		
- downwards • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 10 mm - to mm -	•	
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— at the side 6 mm Connections/ Terminals type of electrical connection	— upwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts type of electrical connectable screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)	— at the side	6 mm
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 	Connections/ Terminals	
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing for AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing for AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 	for main current circuit	screw-type terminals
 ◆ of magnet coil Screw-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) • for AWG cables for main contacts 2x (18 2), 1x (18 1) 	 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections	 at contactor for auxiliary contacts 	Screw-type terminals
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— solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) ◆ for AWG cables for main contacts 2x (18 2), 1x (18 1)	type of connectable conductor cross-sections	
 — finely stranded with core end processing • for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 	• for main contacts	
 — finely stranded with core end processing • for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 	— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
• for AWG cables for main contacts 2x (18 2), 1x (18 1)		

 finely stranded with core end processing 	1 35 mm²
connectable conductor cross-section for auxiliary contacts	1 30 11111
solid or stranded	0.5 2.5 mm²
	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 IIIIIF
type of connectable conductor cross-sections	
for auxiliary contacts	0 (0 5 4 5 3) 0 (0 75 0 5 3)
— 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	18 1
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
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism
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
IEC 61508	
T1 value	
 for proof test interval or service life according to IEC 61508 	20 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 Functional Saftey Test Certificates

<u>KC</u>





Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Confirmation

Special Test Certificate

Transport Information



Environment

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=3RT2037-1AG60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AG60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AG60

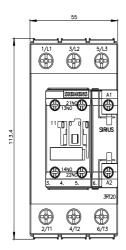
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1AG60&lang=en

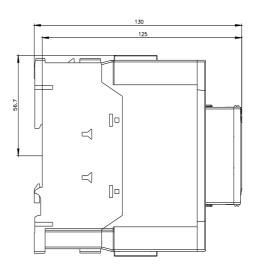
Characteristic: Tripping characteristics, I²t, Let-through current

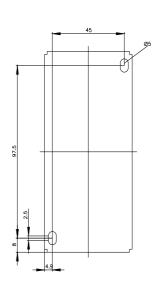
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AG60/char

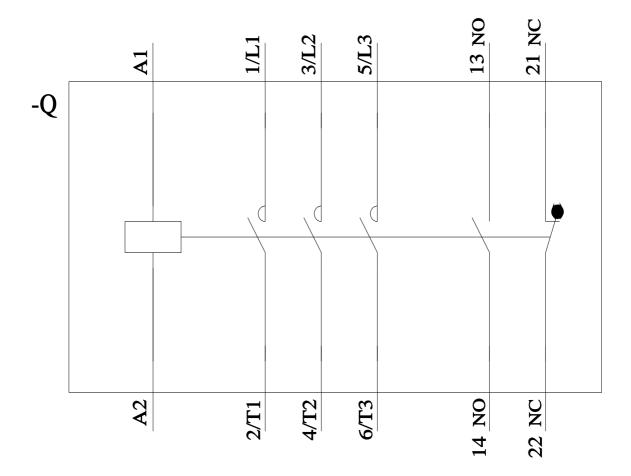
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AG60&objecttype=14&gridview=view1









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