SIEMENS

Data sheet

3RT2037-1NB30



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, AC / DC 20-33 V, with varistor 3-pole, size S2 screw terminals

product brand name	
	SIRIUS
product designation	Power contactor
product type designation	3RT2
General 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 	2 W
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
● at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (switching 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
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 %

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 	80 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °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	47 A 55 A
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 	55 A 70.4 A
 at AC-5b up to 690 V rated value at AC-5b up to 400 V rated value 	53.9 A
• at AC-5b up to 400 v rated value	55.9 A
 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 minimum cross-section in main circuit at maximum AC-1 	38 A 25 mm ²
rated value operational current for approx. 200000 operating	23 1111
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 rated value 	55 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	0.2077
— at 24 V rated value	55 A
— at 110 V rated value	45 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	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A

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— 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 	
— at 24 V rated value	35 A
— at 220 V rated value	1 A
— 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 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 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 — at 500 V rated value	30 kW 37 kW
	37 kW
— at 690 V rated value	57 KVV
operating power for approx. 200000 operating cycles at AC-4	
 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 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	49.2 kVA
• up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	15.1 kVA
 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 	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
Imited 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	4 500 44
• at AC	1 500 1/h
• at DC	1 500 1/h
operating frequency	900 1/b
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
 at AC-3e maximum at AC-4 maximum 	700 1/h
	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC

• at 60 hr; rated value 2033 V control supply voltage at DC		
control supply voltage at DC• raid value2033 Voperating range factor control supply voltage rated0.8• initial value0.8• initial value0.9• initial	 at 50 Hz rated value 	20 33 V
• radd value20 33 Vvalue of magnet coil at DC0.8• Initial value0.8• Initial value0.9• Initial value1• Initial value1• Initial value1• Initial value1• Initial value1• Initial value1•	 at 60 Hz rated value 	20 33 V
operating range factor control supply voltage ratedvoltage initial value0.8• Initial value0.80.8• fulle solue value of magnet coll at AC0.80.1operating range factor control supply voltage rated0.80.1• at 60 Nr20.80.10.1• at 60 Nr20.80.10.1• at 60 Nr20.80.80.1• at 60 Nr20.80.10.1• at 60 Nr20.90.10.1• at 60 Nr20.00.10.1• at 60 Nr20.10.10.1• at 60 Nr20.10.10.1<	control supply voltage at DC	
value of magnet coll at DC• India Value0.8• Iuli-scale Value1.1• at SO H20.8• at SO H22.9 A• at SO H22.9 A• at SO H240 VA• at SO H22.9 A• at SO H240 VA• at SO H22.0 NE• at SO H23.0 NE• at AC<	 rated value 	20 33 V
• full scale value1.1value of magnet factor control supply voltage rated//////////////////////////////		
operating mage facto control supply voltage rated vilue of magnet coil at AC 0.8 1.1 • at 50 H2 0.8 1.1 • at 50 H2 0.8 1.1 • dat 50 H2 0.8 1.1 • dats 01 H2 0.9 locked-rotor current pak 2.6. duration of invish current pak 4.0 • at 80 H2 40 VA • at 80 H2 40 VA • at 80 H2 2.0 • at 80 H2 30 • at 80 H2 30 • at 80 H2 <td< th=""><th> initial value </th><th>0.8</th></td<>	 initial value 	0.8
value of magnet coll at AC• at 80 Hz0.8 1.1• at 80 Hz0.8 1.1• design of the surge suppressorwith variatorinrush current peak3.Aduration of innush current peak50 µslocked-rotor current men value1.Alocked-rotor current men value2.6 Avaluation of locked-rotor current men value4.0 mAapparent picked-rotor current2.0 msholding current mean value4.0 mAapparent picked-rotor current4.0 VAapparent picked-rotor current2.0 Msholding power of magnet coll at AC-• at 80 Hz2.VAclosing power of magnet coll at DC2.0 Msholding power of magnet coll at DC2.0 Msholding power of magnet coll at DC3 110 ms• at AC35 110 ms• at AC35 110 ms• at AC30 55 ms• at AC30 55 ms• at AC30 55 ms• at AC30 55 ms• at AC1number of NC contexts for auxiliary contexts1number of NC contexts for auxiliary contexts1 <tr< th=""><th></th><th>1.1</th></tr<>		1.1
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• at 60 Hz 2 VA closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay 5 110 ms • at AC 35 110 ms • at AC 35 110 ms • at AC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 number of NC contacts for auxiliary contacts 1 instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 1 • at 200 V rated value 3 A • at 300 V rated value 2 A • at 400 V rated value 2 A • at 400 V rated value 6 A • at 60 V rated value 6 A		2 VA
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operational current at AC-15Image: constant of the second sec	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts	
at 230 V rated value10 Aat 400 V rated value3 Aat 500 V rated value2 Aat 690 V rated value1 Aoperational current at DC-12	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
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 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 0.15 A operational current at DC-13 at 24 V rated value 10 A at 48 V rated value 2 A at 60 V rated value 2 A at 60 V rated value 2 A at 110 V rated value 2 A at 110 V rated value 0.9 A at 220 V rated value 0.3 A at 600 V rated value 0.1 A 	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 500 V rated value • at 690 V rated value operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A
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 at 600 V rated value operational current at DC-13 at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value by at 600 V rated value at 600 V rated value<	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 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
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• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)	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 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 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)	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 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
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• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)	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 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A
at 220 V rated value o.3 A o.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 40 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A
at 600 V rated value 0.1 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)	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 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 40 V rated value • at 40 V rated value • at 40 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	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 500 V rated value at 690 V rated value at 690 V rated value at 690 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 60 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 40 V rated value at 410 V rated value at 110 V rated value at 110 V rated value 	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 2 A 1 A
	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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
UL/CSA ratings	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 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 60 V rated value at 220 V rated value at 24 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 22 V rated value at 60 V rated va	1 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
	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 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 60 V rated value at 220 V rated value at 24 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 22 V rated value at 60 V rated va	1 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A

full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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
 side-by-side mounting 	Yes
height	114 mm
width	55 mm
depth	130 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	10
— forwards	10 mm
— upwards	10 mm
— at the side — downwards	6 mm 10 mm
 for live parts 	TO THIN
 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	21 21
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main	
contacts	
 finely stranded with core end processing 	1 35 mm²
connectable conductor cross-section for auxiliary	
 contacts solid or stranded 	0.5 2.5 mm ²
	0.5 2.5 mm ²

 for auxiliary con- — solid or str — finely stranger • at AWG cables 		essing	0.5 2.5 mm ² 2x (0.5 1.5 mm ²), 2x (0.7 2x (0.5 1.5 mm ²), 2x (0.7 2x (20 16), 2x (18 14)			
 for main contact 	cts		18 1			
 for auxiliary cor 	ntacts		20 14			
Safety related data						
 positively drive 	according to IEC 60947- n operation according to		Yes No			
	5-1 B10 value with high demand rate according to SN 31920		1 000 000			
proportion of dange		0 311 3 1920	1 000 000			
with low demanwith high deman	nd rate according to SN and rate according to SN low demand rate accord	31920	40 % 73 % 100 FIT			
	st interval or service life	according to	20 у			
IEC 61508 protection class IP 6 60529	protection class IP on the front according to IEC		IP20			
	the front according to	IEC 60529	finger-safe, for vertical conta	act from the front		
suitability for usesafety-related s	-		Yes			
Certificates/ approval	ls					
(S) Car		<u>Confirmatic</u>	on <u>Miscellaneous</u>	<u>KC</u>	EHC	
EMC	Functional					
	Safety/Safety of Machinery	Declaration o	of Conformity	Test Certificates		
RCM		Declaration of Control	of Conformity	Test Certificates Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
RCM	Machinery	CE	·	Special Test Certific-		
Marine / Shipping	Machinery	CE	·	Special Test Certific-		
Marine / Shipping Marine / Shipping	Machinery Type Examination Certificate	CE	UK CA	Special Test Certific-		

Further information

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=3RT2037-1NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB30

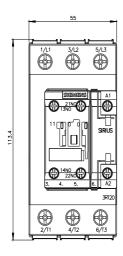
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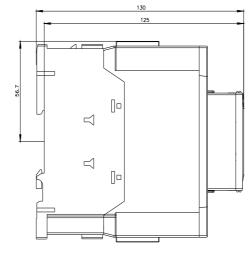
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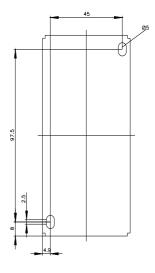
Characteristic: Tripping characteristics, I²t, Let-through current

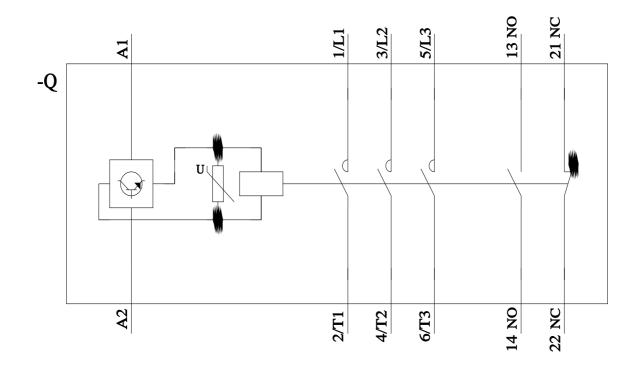
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB30&objecttype=14&gridview=view1









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