# SIEMENS

## Data sheet

# 3RT2047-1NP30

Contactor, AC-3, 55 kW/400 V 1 NO+1 NC, 175-280 V AC/DC 3pole, 3 NO, Size S3 Screw terminal integrated varistor



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2
General technical data	
Size of contactor	S3
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Insulation voltage	
<ul> <li>rated value</li> </ul>	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	690 V
60947-1	
Protection class IP	
• on the front	IP20

• of the terminal	IP00	
Shock resistance at rectangular impulse		
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms	
• at DC	6.7 g / 5 ms, 4.0 g / 10 ms	
Shock resistance with sine pulse		
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms	
● at DC	10.6 g / 5 ms, 6.3 g / 10 ms	
Mechanical service life (switching cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	к	
Ambient conditions		
Installation altitude at height above sea level		
• maximum	2 000 m	
Ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +60 °C	
<ul> <li>during storage</li> </ul>	-55 +80 °C	
Main circuit		
Main circuit Number of poles for main current circuit	3	
	3 3	
Number of poles for main current circuit		
Number of poles for main current circuit Number of NO contacts for main contacts		
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage	3	
Number of poles for main current circuit Number of NO contacts for main contacts Operating voltage • at AC-3 rated value maximum	3	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current	3	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V	3 1 000 V	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value	3 1 000 V	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C	3 1 000 V 130 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C	3 1 000 V 130 A 130 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         — up to 690 V at ambient temperature 60 °C rated value	3 1 000 V 130 A 130 A 110 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         • at AC-2 at 400 V rated value	3 1 000 V 130 A 130 A 110 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         • at AC-2 at 400 V rated value         • at AC-3	3 1 000 V 130 A 130 A 110 A 110 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         • at AC-2 at 400 V rated value         • at AC-3         — at 400 V rated value	3 1 000 V 130 A 130 A 110 A 110 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         • at AC-2 at 400 V rated value         • at AC-3         — at 400 V rated value         • at AC-3         — at 690 V rated value	3 1 000 V 130 A 130 A 110 A 110 A 110 A	
Number of poles for main current circuit         Number of NO contacts for main contacts         Operating voltage         • at AC-3 rated value maximum         Operating current         • at AC-1 at 400 V         — at ambient temperature 40 °C rated value         • at AC-1         — up to 690 V at ambient temperature 40 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         — up to 690 V at ambient temperature 60 °C rated value         • at AC-2 at 400 V rated value         • at AC-3         — at 400 V rated value         • at AC-3         — at 690 V rated value	3 1 000 V 130 A 130 A 130 A 110 A 110 A	

• at 40 °C minimum permissible	50 mm²
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	46 A
• at 690 V rated value	36 A
Operating current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A

at 440 V rated value0.8 Å at 600 V rated value0.35 ÅOperating power0.35 Å• at AC-149 kW at 230 V rated value49 kW at 230 V at 60 °C rated value42 kW at 400 V rated value86 kW at 400 V rated value148 kW at 690 V rated value125 kW at 690 V rated value55 kW• at AC-2 at 400 V rated value55 kW• at AC-3	
Operating powerIndex tends• at AC-149 kW- at 230 V rated value49 kW- at 230 V rated value42 kW- at 400 V rated value86 kW- at 400 V rated value72 kW- at 690 V rated value148 kW- at 690 V rated value125 kW- at 690 V rated value55 kW• at AC-2 at 400 V rated value55 kW• at AC-3 at 230 V rated value55 kW• at AC-3 at 230 V rated value90 kW- at 690 V rated value55 kW• at 400 V rated value55 kW- at 400 V rated value90 kW- at 690 V rated value24.3 kW- at 690 V rated value22.9 kW• at 400 V rated value23.9 kW• at 400 V rated value1000 1/h• at AC-31000 1/h• at AC-1 maximum900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum550 1/h	
• at AC-149 kW- at 230 V rated value49 kW- at 230 V at 60 °C rated value42 kW- at 400 V rated value86 kW- at 400 V rated value72 kW- at 690 V rated value148 kW- at 690 V rated value125 kW- at 690 V rated value55 kW- at 230 V rated value30 kW- at 230 V rated value55 kW- at 230 V rated value55 kW- at 400 V rated value55 kW- at 400 V rated value90 kWOperating power for approx. 200000 operating cycles at AC-424.3 kW- at 690 V rated value24.3 kW- at 690 V rated value32.9 kWNo-load switching frequency7.9 W- at AC1000 1/h- at AC1000 1/h- at AC1000 1/h- at AC-1 maximum900 1/h- at AC-2 maximum350 1/h- at AC-3 maximum350 1/h	
at 230 V rated value49 kW at 230 V at 60 °C rated value42 kW at 400 V rated value86 kW at 400 V rated value72 kW at 690 V rated value148 kW at 690 V rated value125 kW at 690 V rated value55 kW at 230 V rated value55 kW- at 230 V rated value30 kW at 230 V rated value55 kW- at 230 V rated value55 kW- at 400 V rated value55 kW- at 400 V rated value90 kWOperating power for approx. 200000 operating cycles at AC-424.3 kW- at 400 V rated value24.3 kW- at 690 V rated value32.9 kWNo-load switching frequency7.9 W- at AC1 000 1/h- at AC1 000 1/h- at AC1 000 1/h- at AC-1 maximum900 1/h- at AC-2 maximum350 1/h- at AC-3 maximum350 1/h	
<ul> <li>at 230 V at 60 °C rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V at 60 °C rated value</li> <li>at 690 V rated value</li> <li>b 690 V rated value</li> <li>b 72 kW</li> <li>at AC-2 at 400 V rated value</li> <li>b 600 V rated value</li> <li>c at 230 V rated value</li> <li>b 600 V rated value</li> <li>c at 230 V rated value</li> <li>b 600 V rated value</li> <li>c at 230 V rated value</li> <li>c at 230 V rated value</li> <li>c at 400 V rated value</li> <li>c at 400 V rated value</li> <li>c at 400 V rated value</li> <li>c at 690 V rated value</li> <li>c at AC-3</li> <li>c at AC-4</li> <li>c at AC</li> <li>c at AC-1 maximum</li> <li>c at AC-3 maximum</li> <li>c at AC-3 maximum</li> <li>at AC-3</li> <li>c at AC-4</li> <li>c at AC-4</li> <li>c at AC-4</li> <li>c at AC</li></ul>	
<ul> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V at 60 °C rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>b 60 V at 60 °C rated value</li> <li>b 60 V rated value</li> <li>b 60 V rated value</li> <li>c at 230 V rated value</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>b 60 V rated value</li> <li>c at 690 V rated value</li> <li>c at 690 V rated value</li> <li>b 60 V rated value</li> <li>c at 690 V rated value</li> <li>c at AC-3</li> <li>c at AC-4</li> <li>c at AC-4</li> <li>c at AC-5</li> <li>c at AC-1</li> <li>c at AC-1</li> <li>c at AC-3</li> <li>c at AC-3</li> <li>c at AC-4</li> <li>c at AC-4<!--</td--><td></td></li></ul>	
at 400 V at 60 °C rated value72 kW- at 690 V rated value148 kW- at 690 V rated value125 kW• at AC-2 at 400 V rated value55 kW• at AC-3 at 230 V rated value30 kW- at 200 V rated value55 kW• at 400 V rated value55 kW- at 690 V rated value90 kWOperating power for approx. 20000 operating cyclesat AC-424.3 kW• at 400 V rated value22.9 kWThermal short-time current limited to 10 s880 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor7.9 W• at AC1 000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h	
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<ul> <li>at AC-3         <ul> <li>at AC-3</li> <li>at AC-3</li> <li>at AC-3</li> <li>at AOU V rated value</li> <li>at 400 V rated value</li> <li>55 kW</li> <li>at 500 V rated value</li> <li>75 kW</li> <li>at 690 V rated value</li> <li>90 kW</li> </ul> </li> <li>Operating power for approx. 200000 operating cycles at AC-4</li> <li>at 400 V rated value</li> <li>24.3 kW</li> <ul> <li>at 690 V rated value</li> <li>24.3 kW</li> <li>at 690 V rated value</li> <li>24.3 kW</li> </ul> <li>Thermal short-time current limited to 10 s</li> <li>880 A</li> <li>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</li> <li>No-load switching frequency             <ul> <li>at AC</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>at AC-1 maximum</li> <li>900 1/h</li> <li>350 1/h</li> <li>850 1/h</li> </ul> </li> </ul>	
- at 230 V rated value30 kW- at 400 V rated value55 kW- at 500 V rated value75 kW- at 690 V rated value90 kWOperating power for approx. 200000 operating cycles at AC-424.3 kW• at 400 V rated value24.3 kW• at 690 V rated value32.9 kWThermal short-time current limited to 10 s880 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor1000 1/hNo-load switching frequency • at AC1000 1/hOperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum900 1/h• at AC-3 maximum850 1/h	
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Operating power for approx. 200000 operating cycles at AC-4An an	
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the operating current per conductorImage: conductorNo-load switching frequency1 000 1/h• at AC1 000 1/h• at DC1 000 1/hOperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h	
No-load switching frequency         I           • at AC         1 000 1/h           • at DC         1 000 1/h           Operating frequency         900 1/h           • at AC-1 maximum         900 1/h           • at AC-2 maximum         350 1/h           • at AC-3 maximum         850 1/h	
• at AC       1 000 1/h         • at DC       1 000 1/h         Operating frequency       -         • at AC-1 maximum       900 1/h         • at AC-2 maximum       350 1/h         • at AC-3 maximum       850 1/h	
• at DC1 000 1/hOperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h	
Operating frequency• at AC-1 maximum• at AC-2 maximum• at AC-2 maximum• at AC-3 maximum850 1/h	
• at AC-1 maximum       900 1/h         • at AC-2 maximum       350 1/h         • at AC-3 maximum       850 1/h	
at AC-2 maximum 350 1/h     at AC-3 maximum 850 1/h	
• at AC-3 maximum 850 1/h	
■ at AC-4 maximum 200 1/n	
Control circuit/ Control	
Type of voltage of the control supply voltage     AC/DC	
Control supply voltage at AC	
• at 50 Hz rated value 175 280 V	
• at 60 Hz rated value 175 280 V	
Control supply voltage at DC	
• rated value 175 280 V	
Operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value 0.8	
• Full-scale value 1.1	

Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
• at 50 Hz	151 V·A
• at 60 Hz	151 V·A
Apparent holding power of magnet coil at AC	3.5 V·A
• at 50 Hz	
• at 60 Hz	3.5 V·A
Closing power of magnet coil at DC	76 W
Holding power of magnet coil at DC	2.7 W
Closing delay	50 70
• at DC	50 70 ms
Opening delay	
• at DC	38 57 ms
Arcing time	10 20 ms
Control version of the switch operating mechanism	Standard A1 - A2
Residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	20 mA
	20 mA
• at DC at 24 V maximum permissible	
Auxiliary circuit	
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
— instantaneous contact	1
Number of NO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
— instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
<ul><li>Operating current at AC-15</li><li>• at 230 V rated value</li></ul>	6 A
	6 A 3 A
• at 230 V rated value	
<ul><li> at 230 V rated value</li><li> at 400 V rated value</li></ul>	3 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	3 A 2 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	3 A 2 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> Operating current at DC-12	3 A 2 A 1 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> Operating current at DC-12 <ul> <li>at 24 V rated value</li> </ul>	3 A 2 A 1 A 10 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>Operating current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	3 A 2 A 1 A 10 A 6 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> Operating current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	3 A 2 A 1 A 10 A 6 A 6 A

<ul> <li>at 220 V rated value</li> </ul>	1 A
• at 220 v rated value	
• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	96 A
• at 600 V rated value	99 A
Yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
Contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of coordination 1 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A
- with type of assignment 2 required	gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 10 A
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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
<ul> <li>Side-by-side mounting</li> </ul>	Yes

Height

Width

140 mm

70 mm

0 mm 0 mm 0 mm 0 mm 0 mm
0 mm 0 mm 0 mm
0 mm 0 mm 0 mm
0 mm 0 mm
0 mm
0 mm
0 mm
0 mm
10 mm
10 mm
10 mm
0 mm
0 mm
10 mm
10 mm
10 mm

Type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (10 1/0), 1x (10 2)
Connectable conductor cross-section for main	
contacts	
• solid	2.5 16 mm <sup>2</sup>
• stranded	6 70 mm²
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
Safety related data	
B10 value	
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	1 000 000
Proportion of dangerous failures	

• with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	73 %
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> <li>1</li> </ul>	No
T1 value for proof test interval or service life acc. to IEC 61508	20 у
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

Certificates/appro	ovals			
General Prod	uct Approval		Declaration of	Test
			Conformity	Certificates
	(SA)	EHC	EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>

Test Certificates	other	Railway
Special Test Certificate	Confirmation	Vibration and Shock

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

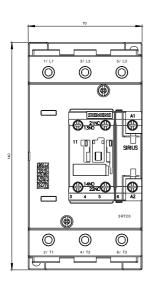
### Industry Mall (Online ordering system)

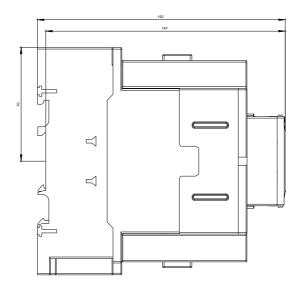
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2047-1NP30

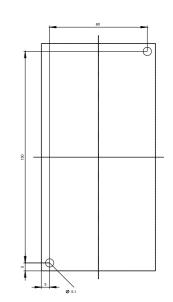
#### Cax online generator

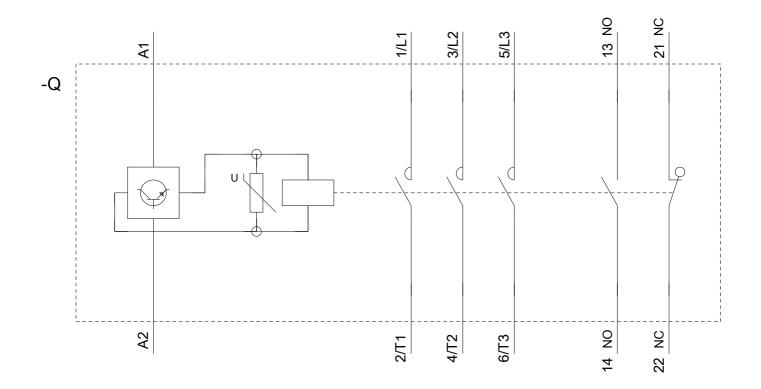
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-1NP30&lang=en









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01/19/2018