SIEMENS

Data sheet 3RT1064-2NP36



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	51 W
 at AC in hot operating state per pole 	17 W
 without load current share typical 	3.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
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 %

lain 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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	275 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	275 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-4 at 400 V rated value	195 A
• at AC-5a up to 690 V rated value	242 A
• at AC-5b up to 400 V rated value	186 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
— up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
— up to 1000 V for current peak value n=20 rated	68 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A
— up to 500 V for current peak value n=30 rated value	172 A
— up to 690 V for current peak value n=30 rated value	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 60 V rated value	200 A

1000.77	00.4
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	54 kW
at 690 V rated value	82 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	90 000 kVA
 up to 400 V for current peak value n=20 rated value 	150 000 VA
 up to 500 V for current peak value n=20 rated value 	190 000 VA
• up to 690 V for current peak value n=20 rated value	260 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 000 VA
• up to 400 V for current peak value n=30 rated value	110 000 VA
• up to 500 V for current peak value n=30 rated value	140 000 VA
 up to 690 V for current peak value n=30 rated value 	200 000 VA
 up to 1000 V for current peak value n=30 rated value 	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	

# limited to 15 switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero # at AC				
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## AC-1 maximum 750 1/h ## AC-2 maximum 250 1/h ## AC-2 maximum 250 1/h ## AC-3 maximum 500 1/h ## AC-				
operating frequency in AC-2 maximum in AC-2 maximum in AC-3 maximum in AC-4 maximum in				
ALAC-1 maximum		1 000 1/h		
	operating frequency			
■ alt AC-3 maximum ■ alt AC-4 maximum ■ 13 to 4 maximum ■ 13 to 4 maximum ■ 13 to 4 maximum ■ 13 to 5 maximum ■ 13 to 1 maximum ■ 14 to 1 maximum ■ 14 to 1 maximum ■ 14 to 1 maximum ■ 15 to 1 maxi	• at AC-1 maximum			
e al AC-3e maximum al AC-4 maximum 30 th 3	• at AC-2 maximum	250 1/h		
• at AC-4 maximum	• at AC-3 maximum	500 1/h		
Control circuit/ Control Type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value control supply voltage at DC at rated value at 60 Hz rated value control supply voltage at DC at rated value at 60 Hz rated value control supply voltage at DC at rated value at 60 Hz rated value at 60 Hz rated value at 60 Hz rated value bilital value at 60 Hz bilital value at 60 Hz at 60 Hz at 60 Hz at 60 Hz bilital value at 60 Hz at 60 Hz bilital value	• at AC-3e maximum	500 1/h		
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control supply voltage at AC • at 60 Hz rafed value • at 60 Hz value • initial value • at 60 Hz • at	Control circuit/ Control			
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control supply voltage at DC • rated value • rate value • rated	at 50 Hz rated value	200 277 V		
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operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8 1.1 0.8 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 0.8 1.1 0.8 0.8 1.1 0.8 0	control supply voltage at DC			
Magnet coll at DC	rated value	200 277 V		
e full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz type of PLC-control input according to IEC 60947-1 type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor with varistor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz •				
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magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz consumed current at PLC-control input according to IEC 60947-1 Type 2 20 mA 80947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz balt 60 Hz at 60 Hz at 60 Hz at 60 Hz balt 60 Hz at 60 Hz at 60 Hz balt 60 Hz at 60 Hz at 60 Hz balt 60 Hz at 60 Hz at 60 Hz balt 60 Hz at 60 Hz at 60 Hz balt 60 Hz at 60 Hz balt 60 Hz balt 60 Hz consumer factor with the holding power of the coil at 50 Hz at 60 Hz balt 60 Hz balt 60 Hz consumer factor with the holding power of the coil at 50 Hz at 60 Hz balt 60 Hz balt 60 Hz closing power of magnet coil at DC balt 60 Hz closing power of magnet coil at DC balt 60 Hz at AC at	full-scale value	1.1		
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consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value 24 V operating range factor of the voltage at PLC-control input design of the surge suppressor apparent plck-up power of magnet coil at AC • at 50 Hz • at 60 Hz 108	• at 60 Hz	0.8 1.1		
voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 H2 • at 60 Hz at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz closing power of magnet coil at AC • at 60 Hz closing power of magnet coil at DC closing power of magnet coil at DC • at AC • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact	type of PLC-control input according to IEC 60947-1	Type 2		
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apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC closing power of magnet coil at DC san yaw	operating range factor of the voltage at PLC-control input	0.8 1.1		
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at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz be at 60 Hz at 50 Hz at 60 Hz at 60 Hz be at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC bolding power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at A	• at 60 Hz	530 VA		
apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz 8.5 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.4 at 60 Hz 0.4 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC at AC at AC at DC at AC at AC at AC at DC be at DC at AC at AC at DC be at DC at AC at AC at DC be at DC at AC at DC at AC at DC be at DC at DC be at DC at AC at DC be at DC at AC be at DC at AC be at DC at AC be at DC be at DC at AC be at DC be at DC be at DC at AC be at DC be at DC be at DC at DC be at DC	inductive power factor with closing power of the coil			
apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at DC at AC • at DC standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact at S.5 VA 8.5 VA	● at 50 Hz	0.8		
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inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at D	● at 50 Hz	8.5 VA		
at 50 Hz at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at DC at AC at DC copening delay at AC at AC at AC at AC at AC at AC bolding power of magnet coil at DC 45 80 ms copening delay at AC	• at 60 Hz	8.5 VA		
otosing power of magnet coil at DC dolding power of MS on MS	inductive power factor with the holding power of the coil			
closing power of magnet coil at DC holding power of magnet coil at DC 3.4 W closing delay at AC at DC 45 80 ms opening delay at AC at DC 80 100 ms at DC 80 100 ms arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	● at 50 Hz	0.4		
holding power of magnet coil at DC closing delay at AC at DC 45 80 ms opening delay at AC at DC 80 100 ms at DC at DC 80 100 ms arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at 60 Hz	0.4		
closing delay	closing power of magnet coil at DC	580 W		
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opening delay • at AC • at DC 80 100 ms arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at AC	45 80 ms		
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● at DC arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	opening delay			
arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at AC	80 100 ms		
control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at DC	80 100 ms		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	arcing time	10 15 ms		
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)		
contact number of NO contacts for auxiliary contacts instantaneous 2	Auxiliary circuit			
		2		
		2		

operational current at AC 12 maying up	40.4		
operational current at AC-12 maximum	10 A		
operational current at AC-15	6.0		
• at 230 V rated value	6 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational current at DC-12	40.4		
at 24 V rated value	10 A		
• at 48 V rated value	6 A		
• at 60 V rated value	6 A		
• at 110 V rated value	3 A		
• at 125 V rated value	2 A		
• at 220 V rated value	1 A		
• at 600 V rated value	0.15 A		
operational current at DC-13	40.4		
• 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 3-phase AC motor			
at 480 V rated value	180 A		
at 600 V rated value	192 A		
yielded mechanical performance [hp]			
• for 3-phase AC motor			
— at 200/208 V rated value	60 hp		
— at 220/230 V rated value	75 hp		
— at 460/480 V rated value	150 hp		
— at 575/600 V rated value	200 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the fuse link			
 for short-circuit protection of the main circuit 			
 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)		
 — with type of assignment 2 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)		
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	gg. 10 A (500 V, 1 kA)		
mounting position	with vertical mounting surface ±/ 00° rotatable, with vertical mounting surface		
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
side-by-side mounting	Yes		
height	210 mm		
width	145 mm		
depth	202 mm		
required spacing			
with side-by-side mounting			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
• for grounded parts			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts			
·			

— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
 for main current circuit 	Connection bar		
 for auxiliary and control circuit 	spring-loaded terminals		
 at contactor for auxiliary contacts 	Spring-type terminals		
of magnet coil	Spring-type terminals		
width of connection bar	25 mm		
thickness of connection bar	6 mm		
diameter of holes	11 mm		
number of holes	1		
connectable conductor cross-section for main contacts			
stranded	70 240 mm²		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	0.25 2.5 mm²		
 finely stranded with core end processing 	0.25 1.5 mm²		
 finely stranded without core end processing 	0.25 2.5 mm²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.25 2.5 mm²)		
 solid or stranded 	2x (0,25 2,5 mm²)		
 finely stranded with core end processing 	2x (0.25 1.5 mm²)		
 finely stranded without core end processing 	2x (0.25 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (24 14)		
AWG number as coded connectable conductor cross section			
for auxiliary contacts	24 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		
B10 value with high demand rate according to SN 31920	1 000 000		
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover		
suitability for use			
 safety-related switching OFF 	Yes		
Certificates/ approvals			
General Product Approval			

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other













other			Railway	
Confirmation	<u>Miscellaneous</u>	Confirmation	Special Test Certific-	Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT1064-2NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

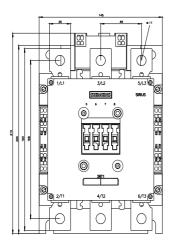
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-2NP36&lang=en

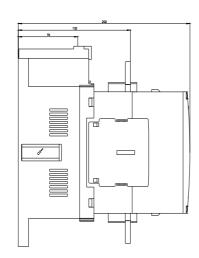
Characteristic: Tripping characteristics, I2t, Let-through current

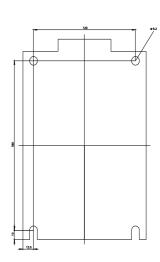
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NP36/char

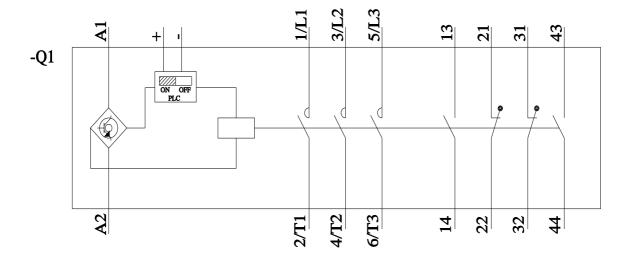
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-2NP36&objecttype=14&gridview=view1









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