# SIEMENS

#### Data sheet

### 3RT2037-1SP30



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, screw terminal, size: S2, F-PLC-IN

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S2			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W			
<ul> <li>without load current share typical</li> </ul>	1.6 W			
insulation voltage				
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	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	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 (operating cycles)				
<ul> <li>of contactor typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	5 000 000			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	01/29/2021			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-25 +60 °C			

during storage	55 +80 °C 10 %		
relative humidity minimum			
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	690 V		
<ul> <li>at AC-3e rated value maximum</li> </ul>	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 $^\circ\mathrm{C}$ rated value	80 A		
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	70 A		
- 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		
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			
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	38 A		
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	38 A		
— up to 500 V for current peak value n=30 rated value	38 A		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	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 rated value	55 A		
— at 60 V rated value	23 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	55 A		
- at 24 V rated value	55 A		
— at 60 V rated value	45 A		
— at 110 V rated value	45 A		
- at 220 V rated value	5 A		
- at 440 V rated value	1A		
- at 600 V rated value	0.8 A		
with 3 current paths in series at DC-1     at 24 V roted value	55 A		
— at 24 V rated value	55 A		

• at AC	1 000 1/h				
no-load switching nequency					
no-load switching frequency					
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	272 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 1 s switching at zero current maximum	1 055 A; Use minimum cross-section acc. to AC-1 rated value				
40 °C					
short-time withstand current in cold operating state up to					
• up to 690 V for current peak value n=30 rated value	45 300 VA				
• up to 500 V for current peak value n=30 rated value	32 800 VA				
• up to 400 V for current peak value n=30 rated value	26 200 VA				
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	15 100 VA				
operating apparent power at AC-6a					
• up to 690 V for current peak value n=20 rated value	56 100 VA				
• up to 500 V for current peak value n=20 rated value	49 200 VA				
up to 400 V for current peak value n=20 rated value	39 400 VA				
operating apparent power at AC-6a					
• at 690 V rated value	20 kW				
• at 400 V rated value	14.7 kW				
operating power for approx. 200000 operating cycles at AC- 4					
— at 690 V rated value	37 kW				
— at 500 V rated value	37 kW				
— at 400 V rated value	30 kW				
— at 230 V rated value	18.5 kW				
• at AC-3e					
— at 690 V rated value	37 kW				
— at 500 V rated value	37 kW				
— at 400 V rated value	30 kW				
— at 230 V rated value	18.5 kW				
• at AC-3					
• at AC-2 at 400 V rated value	30 kW				
operating power					
— at 600 V rated value	0.35 A				
— at 440 V rated value	0.6 A				
— at 220 V rated value	25 A				
— at 110 V rated value	55 A				
— at 60 V rated value	55 A				
— at 24 V rated value	55 A				
with 3 current paths in series at DC-3 at DC-5     at 24 V reteduality					
— at 600 V rated value	0.16 A				
— at 440 V rated value	0.27 A				
— at 220 V rated value	5 A				
— at 110 V rated value	25 A				
— at 60 V rated value	45 A				
— at 24 V rated value	55 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— at 600 V rated value	0.06 A				
— at 440 V rated value	0.1 A				
— at 220 V rated value	1 A				
— at 60 V rated value	6 A				
— at 24 V rated value	35 A				
• at 1 current path at DC-3 at DC-5					
— at 600 V rated value	1.4 A				
— at 440 V rated value	2.9 A				
— at 220 V rated value	45 A				
— at 110 V rated value	55 A				
— at 60 V rated value	55 A				

operating frequency

<ul> <li>at AC-1 maximum</li> </ul>	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
● at AC-3e maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
	ACIDO
control supply voltage at AC	175 0001/
• 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
<ul> <li>full-scale value</li> </ul>	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
type of PLC-control input according to IEC 60947-1	Туре 1
consumed current at PLC-control input according to IEC 60947-1 maximum	11 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	43 A
duration of inrush current peak	10 µs
· · ·	
locked-rotor current mean value	0.18 A
locked-rotor current peak	0.42 A
duration of locked-rotor current	230 ms
holding current mean value	0.01 A
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	2 VA
<ul> <li>at maximum rated control supply voltage at DC</li> </ul>	2 VA
apparent holding power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.95
• at 60 Hz	0.95
closing power of magnet coil at DC	40 W
holding power of magnet coil at DC	1.6 W
closing delay	
	35 110 ms
• at AC	
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
recovery time after power failure typical	2.1 s
arcing time	10 20 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)

Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	1		
contacts			
number of NO contacts for auxiliary contacts instantaneous	0		
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	3 A		
• at 500 V rated value	2 A		
at 690 V rated value	1 A		
operational current at DC-12			
at 24 V rated value	10 A		
at 48 V rated value	6 A		
at 40 V rated value     at 60 V rated value	6 A		
at 50 V rated value     at 110 V rated value	3 A		
at 110 V rated value     at 125 V rated value	3 A 2 A		
at 125 V rated value     at 220 V rated value	2 A 1 A		
• at 600 V rated value	0.15 A		
operational current at DC-13	10.4		
at 24 V rated value     at 48 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	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 200/208 V rated value	20 hp		
— at 460/480 V rated value	20 np 50 hp		
— at 460/480 V rated value — at 575/600 V rated value	50 np 50 hp		
	_ 50 hp A600 / P600		
contact rating of auxiliary contacts according to UL			
Short-circuit protection			
design of the fuse link			
• for short-circuit protection of the main circuit			
<ul> <li>— with type of coordination 1 required</li> </ul>	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	·		
<ul> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)		
for short-circuit protection of the auxiliary switch required  Installation/mounting/dimensions	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	1/ 100° rotation accesible and the		
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			
<ul> <li>with side-by-side mounting</li> <li>forwards</li> </ul>	10 mm		
— upwards	10 mm		
— upwards — downwards	10 mm		
downwalub			

— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )			
connectable conductor cross-section for main contacts	( <u></u> ,, ,,, )			
finely stranded with core end processing	1 35 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 2.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
type of connectable conductor cross-sections	0.5 2.5 mm			
for auxiliary contacts				
	$2 \times (0.5 - 4.5 \text{ mm}^2) 2 \times (0.75 - 0.5 \text{ mm}^2)$			
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section				
section	18 1			
• for main contacts	18 1 20 14			
<ul><li>section</li><li>for main contacts</li><li>for auxiliary contacts</li></ul>	18 1 20 14			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data				
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function	20 14			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> <li>Safety related data <product <ul="" function=""> <li>mirror contact according to IEC 60947-4-1</li> </product></li>	20 14 Yes			
section  • for main contacts • for auxiliary contacts  Safety related data  product function  • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1	20 14 Yes No			
section • for main contacts • for auxiliary contacts Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 safety device type according to IEC 61508-2	20 14 Yes No Type B			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> <li>Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>safety device type according to IEC 61508-2</li> <li>suitability for use safety-related switching OFF</li> </ul></li>	20 14 Yes No Type B Yes			
section  • for main contacts • for auxiliary contacts  Safety related data  product function  • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1  safety device type according to IEC 61508-2 suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920	20 14 Yes No Type B Yes 1 000 000			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> <li>Safety related data <pre>product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </pre></li> <li>safety device type according to IEC 61508-2 <ul> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> </ul> </li>	20 14 Yes No Type B Yes 1 000 000 2			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> <li>Safety related data <pre>product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </pre></li> <li>safety device type according to IEC 61508-2 <ul> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> </ul></li>	20 14 Yes No Type B Yes 1 000 000 2 2 2			
section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> <li>Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>safety device type according to IEC 61508-2 <ul> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> <li>performance level (PL) according to EN ISO 13849-1</li> </ul></li>	20 14 Yes No Type B Yes 1 000 000 2 2 2 C			
<ul> <li>section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>product function                 <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>safety device type according to IEC 61508-2</li> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to SN 31920</li> <li>Safety Integrity Level (SIL) according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> <li>performance level (PL) according to EN ISO 13849-1</li> <li>category according to EN ISO 13849-1</li> </ul> </li> </ul> </li> </ul>	20 14 Yes No Type B Yes 1 000 000 2 2 2 6 2			
<ul> <li>section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>safety device type according to IEC 61508-2</li> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> <li>performance level (PL) according to EN ISO 13849-1</li> <li>category according to EN 60204-1</li> </ul> </li> </ul>	20 14 Yes No Type B Yes 1 000 000 2 2 2 C 2 0			
<ul> <li>section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>safety device type according to IEC 61508-2</li> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> <li>performance level (PL) according to EN ISO 13849-1</li> <li>category according to EN 60204-1</li> <li>diagnostics test interval by internal test function maximum</li> </ul></li></ul>	20 14 Yes No Type B Yes 1 000 000 2 2 2 6 2			
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<ul> <li>section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>safety device type according to IEC 61508-2</li> <li>suitability for use safety-related switching OFF</li> <li>B10 value with high demand rate according to IEC 61508</li> <li>SIL Claim Limit (subsystem) according to EN 62061</li> <li>performance level (PL) according to EN ISO 13849-1</li> <li>category according to EN 1SO 13849-1</li> <li>stop category according to EN 60204-1</li> <li>diagnostics test interval by internal test function maximum</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul> </li> </ul>	20 14 Yes No Type B Yes 1 000 000 2 2 2 2 0 2 8 800 s			
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General Product Ap	proval				
SP Car		<u>Confirmation</u>	<b>U</b>	<u>KC</u>	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity		Test Certificates	Marine / Shipping
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certificates/Test Report</u>	ABS
Marine / Shipping				other	Railway
	Lloyds Register us	RINA	KMRS	<u>Confirmation</u>	Vibration and Shock

#### Further information

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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=3RT2037-1SP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1SP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1SP30

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

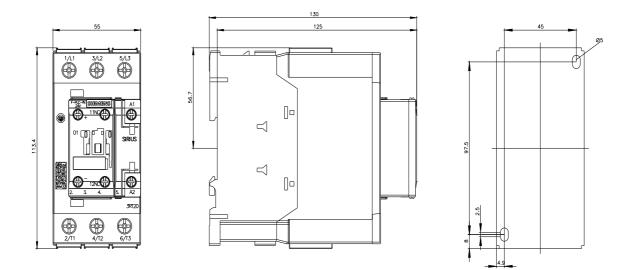
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1SP30&lang=en

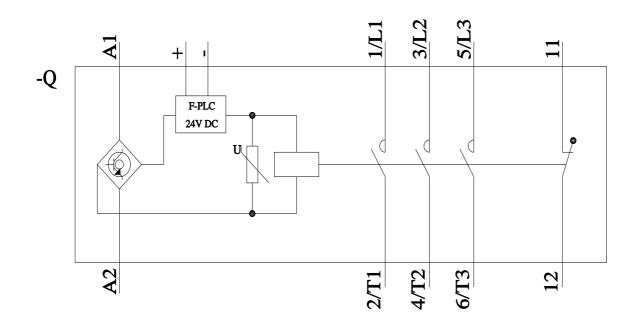
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1SP30/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1SP30&objecttype=14&gridview=view1





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