## SIEMENS

## Data sheet

## 3RT1066-6SP36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC 200-277 V x (0.8-1.1) F-PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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>	66 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W
<ul> <li>without load current share typical</li> </ul>	3.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 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	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<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>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
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 Perfluorbutansulfonsäure (PFBS) und ihre
Ambient conditions	
Ambient conditions installation altitude at height above sea level maximum	2 000 m

• during operation	-25 +60 °C		
during operation     ouring storage	-25 +80 °C		
relative humidity minimum	+80 °C 10 %		
relative humidity at 55 °C according to IEC 60068-2-30	95 %		
maximum Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage	1 000 \/		
• at AC-3 rated value maximum	1 000 V		
at AC-3e rated value maximum	1 000 V		
<ul> <li>operational current</li> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	330 A		
<ul> <li>at AC-1         <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul> </li> </ul>	330 A		
— up to 690 V at ambient temperature 60 °C rated value	300 A		
— up to 1000 V at ambient temperature 40 °C rated value	150 A		
<ul> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	150 A		
— at 400 V rated value	300 A		
— at 500 V rated value	300 A		
— at 690 V rated value	280 A		
— at 1000 V rated value	95 A		
• at AC-3e			
— at 400 V rated value	300 A		
— at 500 V rated value	300 A		
— at 690 V rated value	280 A		
— at 1000 V rated value	95 A		
at AC-4 at 400 V rated value	280 A		
at AC-5a up to 690 V rated value	290 A		
• at AC-5b up to 400 V rated value	249 A		
• at AC-6a			
— up to 230 V for current peak value n=20 rated value	292 A		
— up to 400 V for current peak value n=20 rated value	292 A		
— up to 500 V for current peak value n=20 rated value	292 A		
— up to 690 V for current peak value n=20 rated value	280 A		
— up to 1000 V for current peak value n=20 rated value value	95 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated value	195 A		
— up to 400 V for current peak value n=30 rated value	195 A		
— up to 500 V for current peak value n=30 rated value	195 A		
— up to 690 V for current peak value n=30 rated value	195 A		
<ul> <li>— up to 1000 V for current peak value n=30 rated value</li> </ul>	95 A		
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²		
operational current for approx. 200000 operating cycles at AC-4			
at 400 V rated value	125 A		
• at 690 V rated value operational current	115 A		
• at 1 current path at DC-1			
— at 24 V rated value	300 A		
— at 60 V rated value	300 A		
— at 100 V rated value	33 A		
— at 220 V rated value	3.8 A		
	0.9 A		
— at 440 V rated value	U.9 A		

<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	
- at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	5.2 A
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 220 V rated value — at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
with 2 current paths in series at DC-3 at DC-5	0.1207
with 2 current paths in series at DC-3 at DC-5     — at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 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	0.57 A
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
at AC-2 at 400 V rated value	160 kW
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	71 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	110 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	200 000 VA
• up to 500 V for current peak value n=20 rated value	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
• up to 1000 V for current peak value n=20 rated value	160 000 VA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	70 000 VA

<ul> <li>e. bp 4-00 V for current pesk value =-30 rated value</li> <li>e. up 5: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value =-30 rated value</li> <li>e. up 1: 500 V for current pesk value</li> <li>e. up 1: 500 V for current pesk value</li> <li>e. up 1: 500 V for current pesk value</li> <li>e. up 1: 500 V for current pesk value</li> <li>e. up 1: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>e. up 2: 500 V for current pesk value</li> <li>for 2: 500 V for 2: 500 V</li></ul>		
••• up to 960 V for current peak value m-90 rated value200 000 VA•••• infinited to 1 a switching at zero current maximum5524 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 1 a switching at zero current maximum4 576 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 15 a switching at zero current maximum1536 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 15 a switching at zero current maximum1436 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 15 a switching at zero current maximum1436 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 35 savitching at zero current maximum1436 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 35 savitching at zero current maximum1436 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 35 savitching at zero current maximum1436 A. Use minimum cross section ac. to AC-1 rated value••• infinited to 100 a savitching trequency1000 1h••• info C. Samamum500 1h••• info C. Samamum	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	130 000 VA
• up to 1000 V for current pask value =50 relate value         6000 VA           • inited to 15 a solithing 42:00 current maxmum         552 A. Use minimum cooss-section acc. to AC-1 rated value           • inited to 55 a solithing 42:00 current maxmum         4570 A. Use minimum cooss-section acc. to AC-1 rated value           • inited to 55 a solithing 42:00 current maxmum         1853 A. Use minimum cooss-section acc. to AC-1 rated value           • inited to 50 a solithing 42:00 current maxmum         1853 A. Use minimum cooss-section acc. to AC-1 rated value           • inited to 50 a solithing 42:00 current maxmum         1853 A. Use minimum cooss-section acc. to AC-1 rated value           • inited to 50 a solithing 42:00 current maxmum         1853 A. Use minimum coss-section acc. to AC-1 rated value           • inited to 50 a solithing 42:00 current maxmum         500 1/h           • inited to 50 a solithing 42:00 current maxmum         500 1/h           • inited to 10 maxmum         500 1/h           • inited value         200 . 277 V           • inited value         08 . 1.1           • inited value         08 . 1.1           • initiel value         08 . 1.1           • in	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	160 000 VA
ehret-time withstand current in cold operating state up to de 'C'         6         52/4 A. Use minimum conse-section act. to AC-1 mate value           elimited to 3 is switching at zero current maxmum         4.57 A. Use minimum conse-section act. to AC-1 mate value           elimited to 0 is switching at zero current maxmum         1.83 A. Use minimum conse-section act. to AC-1 mate value           elimited to 0 is switching at zero current maxmum         1.83 A. Use minimum conse-section act. to AC-1 mate value           elimited to 0 is switching at zero current maxmum         1.84 A. Use minimum conse-section act. to AC-1 mate value           elimited to 0 is switching at zero current maxmum         1.88 A. Use minimum conse-section act. to AC-1 mate value           elimited to 0 is switching at zero current maxmum         1.88 A. Use minimum conse-section act. to AC-1 mate value           eliA CC         1.000 th           eliA CC         1.000 th           eliA CC-1 maximum         500 th           eliA CC-2 maximum </td <td><ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul></td> <td>230 000 VA</td>	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	230 000 VA
40 * C           • Initial to 1 is subliching at zero current maximum         5.52.4 A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         4.57.9 A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         1.53.4 A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         1.53.4 Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         1.445.A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         1.445.A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         1.445.A. Use minimum coss-section a.c. to AC-1 nated value           • Initial to 5 is subliching at zero current maximum         500 1/h           • Initial to 1 is anximum         200 277 V           • Initial to 1 is anximum         200 277 V           • Initial to 1 is anximum         0.8 1.1 <t< td=""><td><ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul></td><td>160 000 VA</td></t<>	<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	160 000 VA
<ul> <li>Initial to 5 a working at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current maximum</li> <li>Initial to 50 a switching at zero current zero current zero current zero current ze</li></ul>		
• Initial to 10 s subtiling at zero current maximum     3 193 A. Use minimum cross-section act. to AC-1 rated value       • Initial to 30 s subtiling at zero current maximum     1 485 A. Use minimum cross-section act. to AC-1 rated value       • Initial to 30 s subtiling at zero current maximum     1 484 A. Use minimum cross-section act. to AC-1 rated value       • Initial to 30 s subtiling at zero current maximum     1 484 A. Use minimum cross-section act. to AC-1 rated value       • Initial to 30 s subtiling at zero current maximum     1 484 A. Use minimum cross-section act. to AC-1 rated value       • Initial to 30 s subtiling at zero current maximum     1 500 th       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 s subtiling at zero current maximum     250 1h       • Initial to 30 second supply voltage at AC     200	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	5 524 A; Use minimum cross-section acc. to AC-1 rated value
• Imited to 30 s switching at zero current maximum     1 893 A. Use minimum cross-section aco. to AC-1 rated value       no-load switching frequency     1 000 1h       • at AC     100 1h       • at AC     100 1h       • at AC     100 1h       • at AC     000 1h       • at AC     000 1h       • at AC <td><ul> <li>limited to 5 s switching at zero current maximum</li> </ul></td> <td>4 579 A; Use minimum cross-section acc. to AC-1 rated value</td>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 579 A; Use minimum cross-section acc. to AC-1 rated value
imide to 60 s witching at zero current maximum1445 Å: Use minimum cross-section acc. to AC-1 rated valueno-load witching frequency1000 1/h• at AC1000 1/h• at AC-1 maximum500 1/h• at AC-2 maximum500 1/h• at AC-3 maximum500 1/h• at AC-1 rated value500 1/h• at AC-1 rated value200 277 V• at 60 1/z rated value200 277 V• at 60 1/z rated value200 277 V• at 60 1/z rated value0.8• infail value<	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	3 153 A; Use minimum cross-section acc. to AC-1 rated value
no-dod witching frequency            • at AC         1 000 1/h           • at AC         aximum           • at GO Hz         aximum           • at GO Hz rated value         200 277 V           • at GO Hz rated value         200 277 V           • at GO Hz rated value         200 277 V           • at GO Hz rated value         200 277 V           • at GO Hz rated value         200 277 V           • at GO Hz rated value         0.8           • intial value         1.1           • at GO Hz         0.8           • at GO Hz         0.8 <td><ul> <li>limited to 30 s switching at zero current maximum</li> </ul></td> <td>1 883 A; Use minimum cross-section acc. to AC-1 rated value</td>	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 883 A; Use minimum cross-section acc. to AC-1 rated value
• at AC1 000 1/h• at BC1 000 1/h• at AC-1 maximum500 1/h• at AC-1 maximum500 1/h• at AC-3 maximum500 1/h• at AC-4 maximum500 1/h• at BC500 1/h• at BC600 1/h• at BC600 1/h• at BC500 1/h• at BC500 1/h• at BC600 1/h	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	1 445 A; Use minimum cross-section acc. to AC-1 rated value
• et DC         1000 /h           operating frequency         500 /h           • at AC-2 maximum         500 /h           • at AC-2 maximum         500 /h           • at AC-3 maximum         500 /h           • at AC-4 maximum         500 /h           • at 50 /h z rated value         200 277 V           • at 60 /h z rated value         200 277 V           • at 60 /h z         200 277 V           • at 60 /h z         0.8           • intal value         0.8           • intal value         0.8           • intal value         0.8           • at 50 /h z         0.811           • at minimum	no-load switching frequency	
operating frequency         600 1/h           • at AC-1 maximum         500 1/h           • at AC-3 maximum         500 1/h           • at AC-3 maximum         500 1/h           • at AC-4 maximum         200 277 V           control supply voltage at AC         200 277 V           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           • at 60 1/z         0.8 1.1           cossumed current at PLC-control input according	• at AC	1 000 1/h
• et AC-1 maximum500 tin• at AC-2 maximum250 tin• at AC-3 maximum500 tin• at AC-3 maximum500 tin• at AC-3 maximum500 tin• at AC-4 maximum500 tin• at AC-4 maximum500 tin• at SO H2 maximum500 tin• at SO H2 maximum500 tin• at SO H2 maximum200 _ 277 V• at SO H2 rated value200 _ 277 V• at SO H2 rated value200 _ 277 V• at SO H2 rated value08 &• full-scale value08 &• full-scale value08 &• full-scale value1.1• operating range factor control supply voltage rated value of magnet coil at AC• at SO H20.8 _ 1.1• at SO H20.8 _ 1.1	• at DC	1 000 1/h
• at AC-2 maximum250 1h• at AC-3 maximum500 1h• at AC-4 maximum130 1h• at AC-4 maximum130 1h• at AC-4 maximum130 1h• Control supply voltage at ACACIDC• at 60 Hz rade value200 277 V• at 60 Hz rade value200 277 V• ontrol supply voltage at DC 277 V• rade value200 277 V• ontrol supply voltage at DC 277 V• rade value200 277 V• rade value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8 1.1• or ade value0.8 1.1• or ade value20 277 V• at 60 Hz0.8 1.1• or ade value0.8 1.1• or ade value0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• or ade value24 V• operating range factor of the voltage at PLC-control input according to IEC• of the surge suppresorwith varisfor• at maximum rated value24 V• operating range factor of the voltage at AC00 VA• at maximum rated control supply voltage at AC00 VA• at maximum rated control supply voltage at AC00 VA• at maximum rated control supply voltage at AC530 VA• at maximum rated control supply voltage at AC0.8• at maximum rated control supply voltage at AC0.8• at m	operating frequency	
• at AC-3 maximum     500 1h       • at AC-3e maximum     500 1h       • at AC-3e maximum     500 1h       • at AC-3e maximum     500 1h       • at SO Hz maximum     500 1h       • at SO Hz radied value     AC/DC       • at SO Hz radied value     200 277 V       • at SO Hz radied value     200 277 V       • at SO Hz radied value     200 277 V       • ontrol supply voltage at DC     0 277 V       • initial value     0 277 V       • ontrol supply voltage rated value of     0.8       • initial value     0.8       • initial value     0.8       • initial value     0.8       • at SO Hz     500 VA       • at SO Hz     500 VA       • at SO Hz </td <td>• at AC-1 maximum</td> <td>500 1/h</td>	• at AC-1 maximum	500 1/h
• at AC-3e maximum500 1h• at AC-4 maximum130 1h• at AC-4 maximum130 1h• at S0 Hz rated valueAC/DC• at S0 Hz rated value200 277 V• at S0 Hz rated value200 277 V• control supply voltage at AC200 277 V• ortrol value200 277 V• ortrol value0.8• initial value0.8• full-scale value1.1• operating range factor control supply voltage rated value of magnet coll at AC• initial value0.8• full-scale value0.8• full-scale value0.8• otto supply voltage rated value of magnet coll at AC• otto supply voltage rated value of magnet coll at AC• otto supply voltage rated value of 	• at AC-2 maximum	250 1/h
• at AC-4 maximum     130 t/h       Control circuit/ Control type of vollage of the control supply voltage at AC     AC/DC       • at 50 Hz rated value     200 277 V       • at 50 Hz rated value     200 277 V       control supply voltage at DC	• at AC-3 maximum	500 1/h
Control Circuit/ Control         Second	• at AC-3e maximum	500 1/h
type of voltage of the control supply voltage         ACIDC           control supply voltage at AC         at 50 Hz rated value         200 277 V           control supply voltage at DC         200 277 V           or rated value         200 277 V           control supply voltage at DC         0.8           • rated value         0.8           • initial value         0.8           • initial value         0.8           • initial value         0.8           • at 50 Hz         0.8           • at 50 Hz         0.8           • at 50 Hz         0.8           • orbit value         0.8           • operating range factor control supply voltage rated value of magnet coil at AC         0.8           • at 50 Hz         0.8           • at 60 Hz         0.8           • operating range factor onthe voltage at PLC-control input according to IEC 60947-1         Type 1           consumed current at PLC-control input according to IEC         14 mA           voltage at PLC-control input rated value         24 V           operating range factor of the voltage at AC         -           - at 50 Hz         400 VA           - at 60 Hz         530 VA           at ato Hz         530 VA           at 60 Hz <td>• at AC-4 maximum</td> <td>130 1/h</td>	• at AC-4 maximum	130 1/h
control supply voltage at AC       200 277 V         e at 50 Hz rated value       200 277 V         control supply voltage at DC       200 277 V         control supply voltage at DC       200 277 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8         • initial value       0.8         • initial value       0.8         • at 60 Hz       0.8         • at 60 Hz       0.8         • at 60 Hz       0.8         voltage at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed c	Control circuit/ Control	
• at 50 Hz rated value200 277 V• at 60 Hz rated value200 277 V• rated value0.8• initial value0.8• tuil-scale value1.1• operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• operating range factor of liput according to IEC14 mA60947.1 maximum0.8 1.1voltage at PLC-control input according to IEC24 V• operating range factor of the voltage at PLC-control input according to IEC14 mA• at minimum rated control supply voltage at AC0.8 1.1- at 60 Hz400 VA• at maximum rated control supply voltage at AC530 VA- at 60 Hz530 VA• at minimum rated control supply voltage at AC0.8- at 60 Hz0.8• at 60 Hz <td< td=""><td>type of voltage of the control supply voltage</td><td>AC/DC</td></td<>	type of voltage of the control supply voltage	AC/DC
• at 60 Hz rated value200 277 Vcontrol supply voltage at DC200 277 V• rated value200 277 Voperating range factor control supply voltage rated value of magnet coil at DC0.8• lintili value0.8• tull-scale value1.1operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• orting at pLC-control input according to IEC0.8 1.1• overlage at PLC-control input rated value14 mA• overlage at PLC-control input according to IEC0.8 1.1• overlage at PLC-control input rated value24 V• overlage at PLC-control input rated value0.8 1.1• overlage at PLC-control input according to IEC0.8 1.1• overlage at DLC-control input rated value24 V• overlage at PLC-control input rated value24 V• overlage at PLC-control input rated value24 V• overlage at PLC-control supply voltage at AC 1.1• at 60 Hz400 VA• at to Hz400 VA• at to Hz530 VA• at 60 Hz530 VA• at 60 Hz530 VA• at 60 Hz630 VA• at 60 Hz0.8• at 60 Hz	control supply voltage at AC	
control supply voltage at DC     200 277 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8       • initial value     0.8       • full-scale value     0.8       • at 50 Hz     0.8 1.1       • operating range factor control supply voltage rated value of magnet coil at AC     0.8 1.1       • operating range factor control supply voltage rated value of magnet coil at AC     0.8 1.1       • operating range factor control input according to IEC 60947-1     0.8 1.1       (bype of PLC-control input according to IEC 60947-1     Type 1       consumed current at PLC-control input according to IEC     14 mA       operating range factor of the voltage at PLC-control input     0.8 1.1       design of the surge supressor     with varistor       apparent pick-up power     • at thinimum rated control supply voltage at AC       - at 60 Hz     400 VA       • at 00 Hz     530 VA       • at 60 Hz     530 VA       • at 60 Hz     530 VA       • at 60 Hz     0.8       • at 60 Hz     0.8       • at 60 Hz     0.8       • at 60 Hz     530 VA       • at 60 Hz     0.8       • at 00 Hz     0.8	● at 50 Hz rated value	200 277 V
• rated value     200 277 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8       • initial value     0.8       • at 50 Hz     0.8 1.1       • at 00 Hz     0.8 1.1       • at 00 Hz     0.8 1.1       • operating range factor control supply voltage rated value of magnet coil at AC     0.8 1.1       • at 00 Hz     0.8 1.1       • at 00 Hz     0.8 1.1       • operating range factor control input according to IEC 60947.1     Type 1       Consumed current at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • operating range factor of the voltage at PLC-control input according to IEC 60947.1     14 mA       • at 60 Hz     530 VA     530 VA       • at 60 Hz     530 VA     530 VA       • at 60 Hz	• at 60 Hz rated value	200 277 V
operating range factor control supply voltage rated value of magnet coil at DC       0.8         • initial value       0.8         • full-scale value       1.1         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         type of PLC-control input according to IEC 60947.1       Type 1         consumed current at PLC-control input according to IEC 60947.4       14 mA         ovoltage at PLC-control input according to IEC 60947.4       0.8 1.1         type of PLC-control input according to IEC 60947.4       14 mA         consumed current at PLC-control input according to IEC 60947.4       0.8 1.1         dots at DLC-control input rated value       24 V         operating range factor of the voltage at PLC-control input 0.8 1.1       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       eat to Hz       400 VA         - at 60 Hz       530 VA       530 VA         - at 60 Hz       530 VA       530 VA         eat 60 Hz       530 VA       530 VA         eat 60 Hz       0.8       0.8         eat 60 Hz       0.8       0.8         eat 60 Hz       0.8	control supply voltage at DC	
mignet coll at DC0.8• initial value0.8• initial value1.1operating range factor control supply voltage rated value of magnet coll at AC0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1type of PLC-control input according to IEC 60947-1Type 1consumed current at PLC-control input according to IEC14 mA60947-1 maximum24 Vvoltage at PLC-control input rated value24 Voperating range factor of the voltage at PLC-control input0.6 1.1design of the surge suppressorwith varistorapparent pick-up power400 VA- at 60 Hz400 VA- at 60 Hz530 VA- at 60 Hz0.8- at maximu	• rated value	200 277 V
• full-scale value       1.1         operating range factor control supply voltage rated value of magnet coil at AC       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         • ot 70 FLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC       14 mA         60947-1 maximum       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       400 VA         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 60 Hz       0.8         - at 60 Hz       0.8         - at 60 Hz <td></td> <td></td>		
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       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1       Type 1         operating range factor of the voltage at PLC-control input       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with variator         apparent pick-up power       400 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         - at 50 Hz       530 VA         • at 50 Hz       0.8         apparent pick-up power of magnet coil at AC       0.8         • at 60 Hz       0.8      <	initial value	0.8
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• at 50 Hz       0.8 1.1         • at 60 Hz       0.8 1.1         type of PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC 60947-1 maximum       14 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         apparent pick-up power       -         • at 60 Hz       400 VA         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       0.8         - at 60 Hz       0.8         - at 60 Hz       530 VA         - at 50 Hz       0.8         - at 50 Hz       0.8         - at 60 Hz       0.8         - at 60 Hz       0.8         - at 60 Hz       0.8         - a		
• at 60 Hz       0.8 1.1         type of PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC       14 mA         0947-1 maximum       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       •         • at minimum rated control supply voltage at AC       -         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 50 Hz       400 VA         - at 60 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       0.8         apparent holding power       -         - at minimum rated control supply voltage at DC       <		0.8 11
type of PLC-control input according to IEC 60947-1       Type 1         consumed current at PLC-control input according to IEC       14 mA         60947-1 maximum       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       400 VA         - at 50 Hz       400 VA         - at 60 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         - at 50 Hz       530 VA         - at 60 Hz       530 VA         • at 60 Hz       0.8         • at 60 Hz       3.4 VA         apparent holding power       -         • at maximum rated control supply vo		
consumed current at PLC-control input according to IEC       14 mA         60947-1 maximum       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       •         • at minimum rated control supply voltage at AC       •         - at 50 Hz       400 VA         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 50 Hz       0.8         • at 60 Hz       0.4         • at 60 Hz       0.8         • at minimum rated control supply voltage at DC       2.8 VA         • at maximum rated control supply voltage at DC       3.4 VA		
60947-1 maximum       24 V         operating range factor of the voltage at PLC-control input       0.8 1.1         design of the surge suppressor       with varistor         apparent pick-up power       -         • at minimum rated control supply voltage at AC       400 VA         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       630 VA         - at 50 Hz       530 VA         - at 50 Hz       630 VA         - at 50 Hz       0.8         - at 50 Hz       0.8         - at 60 Hz       3.4 VA         apparent holding power       -         - at 50 Hz		
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design of the surge suppressor       with varistor         apparent pick-up power       - at 50 Hz         - at 60 Hz       400 VA         - at 60 Hz       400 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         - at 60 Hz       530 VA         - at 50 Hz       530 VA         apparent pick-up power of magnet coil at AC       530 VA         - at 50 Hz       530 VA         at 60 Hz       530 VA         inductive power factor with closing power of the coil       0.8         • at 50 Hz       0.8         • at 60 Hz       0.8         • at 60 Hz       0.8         • at 60 Hz       0.8         • at minimum rated control supply voltage at DC       2.8 VA         • at maximum rated control supply voltage at DC       3.4 VA         apparent holding power       - at 50 Hz         • at minimum rated control supply voltage at AC       - at 50 Hz         - at 50 Hz       5.5 VA         - at 60 Hz       5.5 VA	voltage at PLC-control input rated value	24 V
apparent pick-up power• at minimum rated control supply voltage at AC- at 50 Hz- at 60 Hz- at 50 Hzsaparent pick-up power of magnet coil at AC• at 50 Hz• at 50 Hz• at 60 Hz• at minimum rated control supply voltage at DC• at minimum rated control supply voltage at DC• at minimum rated control supply voltage at DC• at minimum rated control supply voltage at AC- at 50 Hz- at 60 Hz• at minimum rated control supply voltage at AC- at 60 Hz- at 60 Hz5.5 VA- at 60 Hz• a	operating range factor of the voltage at PLC-control input	0.8 1.1
<ul> <li>at minimum rated control supply voltage at AC         <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>bt 2</li> <li>bt 30 VA</li> </ul> <ul> <li>at 50 Hz</li> <li>bt 2</li> <li>bt 30 VA</li> <li>bt 2</li> <li>bt 30 VA</li> <li>bt 30 V</li></ul></li></ul>	design of the surge suppressor	with varistor
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at 60 Hz400 VA• at maximum rated control supply voltage at AC at 60 Hz at 60 Hz530 VA at 50 Hz530 VA• at 50 Hz530 VA• at 60 Hz530 VA• at 60 Hz530 VA• at 60 Hz0.8• at 60 Hz0.8• at 60 Hz0.8• at 60 Hz3.4 VA• at minimum rated control supply voltage at DC3.4 VA• at minimum rated control supply voltage at AC at 50 Hz- at 50 Hz5.5 VA- at 60 Hz5.5 VA	<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
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at 60 Hz530 VA at 50 Hz530 VAapparent pick-up power of magnet coil at AC530 VA• at 50 Hz530 VA• at 60 Hz530 VAinductive power factor with closing power of the coil0.8• at 60 Hz0.8• at minimum rated control supply voltage at DC3.4 VAapparent holding power3.4 VA• at minimum rated control supply voltage at DC3.5 VA• at minimum rated control supply voltage at AC5.5 VA at 50 Hz5.5 VA at 60 Hz5.5 VA	— at 60 Hz	400 VA
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apparent holding power       2.8 VA         • at minimum rated control supply voltage at DC       3.4 VA         • at maximum rated control supply voltage at DC       3.4 VA         apparent holding power		
at minimum rated control supply voltage at DC     at maximum rated control supply voltage at DC     at maximum rated control supply voltage at DC     at minimum rated control supply voltage at AC     - at 50 Hz     - at 60 Hz     S.5 VA		0.8
• at maximum rated control supply voltage at DC       3.4 VA         apparent holding power		2014
apparent holding power		
at minimum rated control supply voltage at AC		3.4 VA
at 50 Hz 5.5 VA at 60 Hz 5.5 VA		
— at 60 Hz 5.5 VA		
• at maximum rated control supply voltage at AC		5.5 VA
	<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	

— at 50 Hz	8.5 VA
— at 50 Hz — at 60 Hz	8.5 VA
apparent holding power of magnet coil at AC	0.5 VA
at 50 Hz	8.5 VA
• at 50 Hz	8.5 VA
	0.5 VA
inductive power factor with the holding power of the coil • at 50 Hz	0.5
• at 50 Hz	0.4
	0.4 580 W
closing power of magnet coil at DC holding power of magnet coil at DC	3.4 W
closing delay	5.4 W
• at AC	60 75 ms
• at DC	60 75 ms
opening delay	00 75 115
• at AC	115 130 ms
• at DC	115 130 ms
recovery time after power failure typical	2 s
arcing time	10 15 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit	
	2
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous	2
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	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	
• 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	1A
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 2 A
at 60 V rated value	2 A 1 A
at 110 V rated value	1A
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	
<ul> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> </ul>	302 A
at 480 V rated value     at 600 V rated value	289 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
- at 200/208 V rated value	100 hp
— at 220/230 V rated value	125 hp
— at 460/480 V rated value	250 hp
— at 575/600 V rated value	300 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	aC: 500 A (600 V 100 kA)
<ul> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	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)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
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 202 mm
depth	202 11111
<ul> <li>equired spacing</li> <li>with side-by-side mounting</li> </ul>	
— 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	
<ul> <li>for main current circuit</li> </ul>	Connection bar
<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
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	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), max. 2x (0,75 4 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  AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14), 1x 12
section	
<ul> <li>for auxiliary contacts</li> </ul>	18 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
safety device type according to IEC 61508-2	Туре В
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508	1 000 000 2

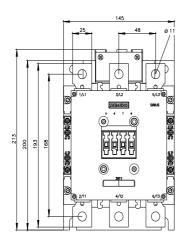
,	according to EN ISO 1384	9-1	С		
category according to E	EN ISO 13849-1		2		
stop category accord	ing to EN 60204-1		0		
PFHD with high deman	d rate according to EN 620	061	4.5E-7 1/h		
failure rate [FIT] with lo	w demand rate according t	o SN 31920	100 FIT		
Safe failure fraction (	SFF)		93 %		
PFDavg with low dem	and rate according to IE	C 61508	0.007		
MTBF			75 a		
hardware fault tolerar	ice according to IEC 615	08	0		
T1 value for proof test i 61508	nterval or service life acco	rding to IEC	20 a		
protection class IP on	the front according to IE	EC 60529	IP00; IP20 with box te	rminal/cover	
touch protection on th	ne front according to IEC	60529	finger-safe, for vertica	I contact from the front with box t	erminal/cover
ertificates/ approvals					
SP M		<u>Confirmation</u>		<u>KC</u>	EAC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	onformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA	C C EG-Konf.	<u>Special Test Certific-</u> ate	Type Test Certific- ates/Test Report
other			Railway		
Miscellaneous	<b>Confirmation</b>	<u>Miscellaneous</u>	<u>Special Test C</u> ate	ertific- Vibration and Shock	
	to exit the Russian mark		n-russian-business		
Please contact your loc	n the renewal of the curr cal Siemens office on the si other than the sanctioned E	tatus of validity of th	ne EAC certification if y	ou intend to import or offer to su	pply these products to an
Information on the pa					
	siemens.com/cs/ww/en/vie nloadcenter (Catalogs, B pm/ic10				
Industry Mall (Online		log/product?mlfh=?	3RT1066-6SP36		
Cax online generator					
Service&Support (Ma	on.siemens.com/WW/CAX nuals, Certificates, Chara .siemens.com/cs/ww/en/ps	cteristics, FAQs,.	lang=en&mlfb=3RT106 )	<u>66-6SP36</u>	

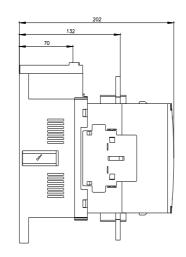
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

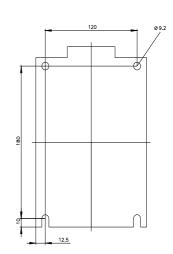
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6SP36&lang=en

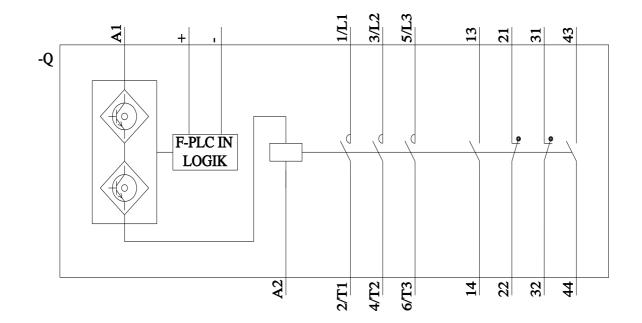
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6SP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6SP36&objecttype=14&gridview=view1









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