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	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	66 W
 at AC in hot operating state per pole 	22 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)	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		
 operational current at AC-1 at 400 V at ambient temperature 40 °C rated value 	330 A		
 at AC-1 up to 690 V at ambient temperature 40 °C rated value 	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		
 — up to 1000 V at ambient temperature 60 °C rated value at AC-3 	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		
 — up to 1000 V for current peak value n=30 rated value 	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		

 with 2 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	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	
 up to 230 V for current peak value n=20 rated value 	110 000 kVA
 up to 400 V for current peak value n=20 rated value 	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	
 up to 230 V for current peak value n=30 rated value 	70 000 VA

 e. bp 4-00 V for current pesk value =-30 rated value e. up 5: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value =-30 rated value e. up 1: 500 V for current pesk value e. up 1: 500 V for current pesk value e. up 1: 500 V for current pesk value e. up 1: 500 V for current pesk value e. up 1: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value e. up 2: 500 V for current pesk value for 2: 500 V for 2: 500 V		
••• 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	 up to 400 V for current peak value n=30 rated value 	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	 up to 500 V for current peak value n=30 rated value 	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> up to 690 V for current peak value n=30 rated value </td> <td>230 000 VA</td>	 up to 690 V for current peak value n=30 rated value 	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> up to 1000 V for current peak value n=30 rated value </td><td>160 000 VA</td></t<>	 up to 1000 V for current peak value n=30 rated value 	160 000 VA
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• 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	 limited to 1 s switching at zero current maximum 	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> limited to 5 s switching at zero current maximum </td> <td>4 579 A; Use minimum cross-section acc. to AC-1 rated value</td>	 limited to 5 s switching at zero current maximum 	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<	 limited to 10 s switching at zero current maximum 	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> limited to 30 s switching at zero current maximum </td> <td>1 883 A; Use minimum cross-section acc. to AC-1 rated value</td>	 limited to 30 s switching at zero current maximum 	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	 limited to 60 s switching at zero current maximum 	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	
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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
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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
	 at maximum rated control supply voltage at AC 	

— 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	
 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	
• 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	
 full-load current (FLA) for 3-phase AC motor at 480 V rated value 	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)
 with type of coordination 1 required with type of coordination 2 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	
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
 equired 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 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
 of magnet coil 	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 ²
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 ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14), 1x 12
section	
 for auxiliary contacts 	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

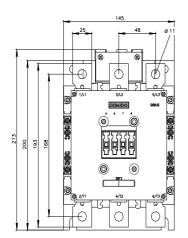
,	according to EN ISO 1384	9-1	С		
category according to E	EN ISO 13849-1		2		
stop category accord	ing to EN 60204-1		0		
PFHD with high deman	d rate according to EN 620	061	4.5E-7 1/h		
failure rate [FIT] with lo	w demand rate according t	o SN 31920	100 FIT		
Safe failure fraction (SFF)		93 %		
PFDavg 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	Confirmation	<u>Miscellaneous</u>	<u>Special Test C</u> ate	ertific- Vibration and Shock	
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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>	

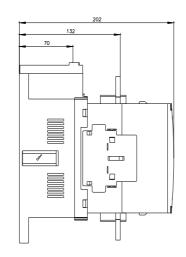
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

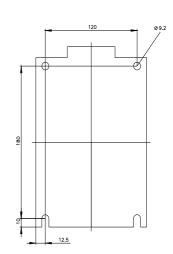
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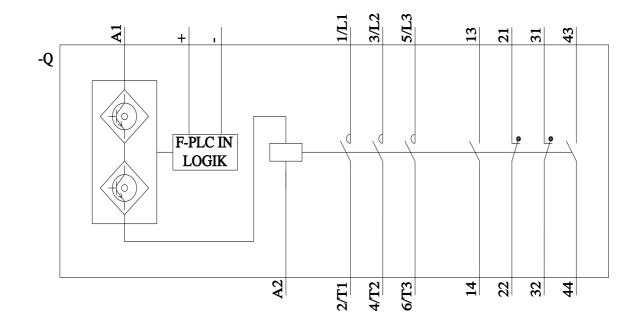
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6SP36/char

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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