## **SIEMENS**

Data sheet 3RT1066-6PP35

0101110



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 1 NO + 1 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal with remaining lifetime indicator

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
without load current share typical	3.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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)	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Perfluorobutane sulfonic acid (PFBS) and its salts
Weight	7 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	

during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
• at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	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 $^{\circ}\text{C}$ rated value	300 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	200 A
— at 400 V rated value	300 A 300 A
— at 500 V rated value — at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	30 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-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	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	405.4
at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	
<ul> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> </ul>	300 A
	300 A 300 A
— at 60 V rated value	
— at 110 V rated value	33 A
— at 220 V rated value — at 440 V rated value	3.8 A 0.9 A
— at 440 V rated value — at 600 V rated value	0.6 A
— at ooo v rated value	0.07

a with 2 augment noths in series at DC 4	
<ul> <li>with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	300 A
— at 24 v rated value  — at 60 V rated value	300 A
	300 A
— at 110 V rated value  — 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	200 4
— 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	200 4
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— 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	
— 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	
— 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-3	00.144
— 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	00 144
— 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-	
• 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
• up to 400 V for current peak value n=30 rated value	130 000 VA
• up to 500 V for current peak value n=30 rated value	160 000 VA

# up to 690 V for current peak value m=30 rated value # up to 1900 V for current peak value m=30 rated value short-time withstand current in cold operating state up to # of 0 c # limited to 1 s withching at zero current maximum # limited to 5 s witching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero current maximum # limited to 30 s switching at zero # at AC = maximum # at AC = ma		
short-time withstand current in cold operating state up to 40 °C   • Invited to 1 a switching at zero current maximum  • Invited to 1 a switching at zero current maximum  • Invited to 1 a switching at zero current maximum  • Invited to 10 a switching at zero current maximum  • Invited to 10 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 50 a switching at zero current maximum  • Invited to 60 a switching frequency  • at AC-1 maximum  • at AC-3 maximum  • at AC-	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	230 000 VA
# limited to 1 is aviliching at zero current maximum     # limited to 10 is aviliching at zero current maximum     # limited to	• up to 1000 V for current peak value n=30 rated value	160 000 VA
Himided to 16 s evitching at zero current maximum   5824 At, Use minimum cross-section acc, to AC-1 rated value   1 Himided to 30 s evitching at zero current maximum   4 879 At, Use minimum cross-section acc, to AC-1 rated value   1 Himided to 30 s evitching at zero current maximum   1 Hide At, Use minimum cross-section acc, to AC-1 rated value   1 Himided to 50 s evitching at zero current maximum   1 Hide At, Use minimum cross-section acc, to AC-1 rated value   1 Himided to 50 s evitching at zero current maximum   1 Hide At, Use minimum cross-section acc, to AC-1 rated value   1 Himided At 10 H	short-time withstand current in cold operating state up to	
• Imited to 5 a switching at zero current maximum   4.578 k, Use minimum cross-section acc. to AC-1 rated value   1.682 k,	40 °C	
minida to 10 s avidaring at zero current maximum   1883 k, Use minimum cross-section acc. to AC-1 rated value   1884 k, Use minimum cross-section acc. to	<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
Initial to 00 s evid-hing at zero current maximum	<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
•   milling to 60 8 switching at zero current maximum   1.445 A. Use minimum cross-section acc. to AC-1 rated value   1.000 1/h	<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
o dia de witching frequency	<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
o dia de witching frequency	<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
		1 000 1/h
Operating frequency		
el AC-1 maximum		1 000 1/11
• at AC-2 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-4 maximum     • at Orbita per an analysis of the control supply voltage Control supply voltage at AC     • at 60 Hz rated value     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz     • at maximum rated control supply voltage at AC     • at 60 Hz		750.4%
■ at AC-3 maximum		
• at AC-3e maximum		
• at AC-4 maximum  Control circulit Control  Uppe of voltage of the control supply voltage  at C5 Hz rated value  at C6 Hz rated value  at C6 Hz rated value  at C7 V  at C7 V		
Control circuit/ Control  Type of Voltage of the control supply voltage at AC  at 30 Hz rated value  at 30 Hz rated value  at 30 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  initial value  initial value  at 50 Hz  at 50 Hz  bye of PLC-control input according to IEC 69947-1  type of PLC-control input according to IEC 69947-1  type 2  consumed current at PLC-control input according to IEC 69947-1  consumed current at PLC-control input according to IEC 69947-1  design of the surge suppressor  at minimum rated control supply voltage at AC  at 50 Hz  at maximum rated control supply voltage at AC  at 60 Hz  at 50 Hz  at 60 Hz  at 50 Hz  at 60 Hz  at 50 Hz  at 60 Hz  at 60 Hz  at 60 Hz  at minimum rated control supply voltage at DC  at minimum rated control supply voltage at		
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■ at 50 Hz rated value     ■ control supply voltage at DC rated value     ■ control supply voltage at DC rated value of magnet coil at DC     ■ initial value	type of voltage of the control supply voltage	AC/DC
■ at 50 Hz rated value     ■ control supply voltage at DC rated value     ■ control supply voltage at DC rated value of magnet coil at DC     ■ initial value	control supply voltage at AC	
e at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value of magnet coil at DC  e initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 80 Hz  type of PLC-control input according to IEC 60947-1  type of PLC-control input according to IEC 60947-1  voltage at PLC-control input according to IEC 60947-1  volt		200 277 V
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• initial value • full-scale value • at 50 Hz • at 60 Hz • at 60 Hz  • at 60 Hz  consumed current at PLC-control input according to IEC 60947-1 Type 2  consumed current at PLC-control input according to IEC 60947-1 Type 2  consumed current at PLC-control input according to IEC 60947-1 Type 2  consumed current at PLC-control input according to IEC 60947-1 Two voltage at PLC-control input according to IEC 60947-1 Two voltage at PLC-control input according to IEC 60947-1 Two voltage at PLC-control input 60947-1 Two voltage at PLC-control voltage at PLC-control input 60947-1 Two voltage at PLC-control voltage at PLC-control input 60947-1 Two voltage at PLC-control voltage at PLC		
• full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz  onsumed current at PLC-control input according to IEC 60947-1  cons		0.8
operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz at 60 Hz but 60 H		
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 2           consumed current at PLC-control input according to IEC 60947-1         20 mA           60947-1 maximum         20 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 minimum rated control supply voltage at AC           — at 50 Hz         400 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           • 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    at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz  • at maximum		
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* at 60 Hz  type of PLC-control input according to IEC 60947-1  consumed current at PLC-control input according to IEC 60947-1 maximum  voltage at PLC-control input rated value  voltage at PLC-control input rated value  operating range factor of the voltage at PLC-control input  design of the surge suppressor  aparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  • at maximum rated control supply voltage at DC  • at 50 Hz  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC	● at 50 Hz	0.8 1.1
type of PLC-control input according to IEC 60947-1  consumed current at PLC-control input according to IEC 60947-1  voltage at PLC-control input rated value  voltage at PLC-control input rated value  operating range factor of the voltage at PLC-control input  design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  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 maximum rated control supply voltage at DC  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz		0.8 1.1
consumed current at PLC-control input according to IEC 60947-1 maximum  voltage at PLC-control input rated value 24 V  operating range factor of the voltage at PLC-control input design of the surge suppressor  apparent plck-up power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz — at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at maximum 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 DC  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at 60 Hz  • 5.5 VA		
voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 60 Hz — at 50 Hz — at 50 Hz — at 50 Hz  sapparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz • at maximum 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 maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz		
operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 50 Hz — at 50 Hz — at 50 Hz  saparent pick-up power of magnet coil at AC • at 50 Hz • at 80 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at 60 Hz • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at DC - at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at 60 Hz		20 IIIA
design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  — at 60 Hz  — at 50 Hz  — at 50 Hz  saparent pick-up power of magnet coil at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at maximum 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 DC  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at 60 Hz  8.5 VA	voltage at PLC-control input rated value	24 V
design of the surge suppressor  apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  — at 60 Hz  — at 50 Hz  — at 50 Hz  saparent pick-up power of magnet coil at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at maximum 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 DC  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at 60 Hz  8.5 VA	operating range factor of the voltage at PLC-control input	0.8 1.1
apparent pick-up power  at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC  — at 60 Hz — at 50 Hz — at 50 Hz — at 50 Hz  at 530 VA  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  530 VA  at 60 Hz  530 VA  at 60 Hz  530 VA  at 60 Hz  0.8  at 50 Hz 0.8  at 60 Hz  at 60 Hz  at 60 Hz  2.8 VA  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  at maximum rated control supply voltage at AC — at 50 Hz  at maximum rated control supply voltage at AC — at 50 Hz  at maximum rated control supply voltage at AC — at 50 Hz  at maximum rated control supply voltage at AC — at 50 Hz  at maximum rated control supply voltage at AC — at 50 Hz  at 60 Hz  8.5 VA		
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC — at 60 Hz — at 60 Hz — at 50 Hz — at 50 Hz  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  530 VA  at 60 Hz  530 VA  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  0.8  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC  at maximum rated control supply voltage at DC  at minimum rated control supply voltage at DC  at 50 Hz — at 60 Hz  at 60 Hz  at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz  8.5 VA  - at 60 Hz  8.5 VA  8.5 VA  8.5 VA		Will Vallotol
- at 50 Hz - at 60 Hz - at 60 Hz - at 60 Hz - at 60 Hz - at 50 Hz - at 60 Hz - at 60 Hz - at 60 Hz - at 50 Hz - at 60 Hz - at 50 Hz - at 60 Hz - at 50 Hz - at 60 Hz - at 50 Hz - at maximum rated control supply voltage at DC - at maximum rated control supply voltage at DC - at 50 Hz - at 60 Hz - at 50 Hz - at 60 Hz		
- at 60 Hz  • at maximum rated control supply voltage at AC  - at 60 Hz  - at 50 Hz  at 50 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at minimum rated control supply voltage at DC  • at maximum 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 maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  8.5 VA		400.1/4
at maximum rated control supply voltage at AC  — at 60 Hz — at 50 Hz  apparent pick-up power of magnet coil at AC  at 50 Hz at 60 Hz  530 VA  at 60 Hz  530 VA  inductive power factor with closing power of the coil at 50 Hz at 60 Hz  0.8  at 60 Hz  at 60 Hz  0.8  apparent holding power  at minimum 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  550 VA  610 Hz  610		
- at 60 Hz - at 50 Hz 530 VA  apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at minimum rated control supply voltage at DC • at maximum 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 DC  • at maximum rated control supply voltage at DC  • at minimum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  8.5 VA		400 VA
apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at maximum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • 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 maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  8.5 VA		
apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz 530 VA  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.8  apparent holding power • at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC at 50 Hz - at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC - at 50 Hz - at 50 Hz - at 50 Hz - at 50 Hz - at 60 Hz 8.5 VA		
at 50 Hz at 60 Hz binductive power factor with closing power of the coil at 50 Hz at 60 Hz binductive power factor with closing power of the coil at 50 Hz binductive power factor with closing power of the coil binductive power factor with closing power of the coil binductive power binductive p		530 VA
at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  0.8  apparent holding power  at minimum rated control supply voltage at DC  at maximum 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 maximum rated control supply voltage at AC  — at 50 Hz  at maximum rated control supply voltage at AC  — at 50 Hz  at maximum rated control supply voltage at AC  — at 60 Hz  8.5 VA  8.5 VA	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC  at maximum 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 maximum rated control supply voltage at AC  at 50 Hz  at maximum rated control supply voltage at AC  at 50 Hz  at maximum rated control supply voltage at AC  at 50 Hz  at 60 Hz  8.5 VA	• at 50 Hz	530 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power</li> <li>at minimum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at minimum rated control supply voltage at AC</li> <li>at minimum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>8.5 VA</li> <li>8.5 VA</li> <li>8.5 VA</li> </ul>	● at 60 Hz	530 VA
● at 60 Hz  apparent holding power  ● at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  8.5 VA  8.5 VA	inductive power factor with closing power of the coil	
● at 60 Hz  apparent holding power  ● at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  8.5 VA  8.5 VA	• at 50 Hz	0.8
apparent holding power  • at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  8.5 VA  - at 60 Hz  8.5 VA	• at 60 Hz	0.8
<ul> <li>at minimum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at AC</li> <li>at minimum rated control supply voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at maximum rated control supply voltage at AC</li> <li>at maximum rated control supply voltage at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>8.5 VA</li> <li>at 60 Hz</li> <li>8.5 VA</li> </ul>	apparent holding power	
apparent holding power  at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  8.5 VA  — at 60 Hz  8.5 VA		2.8 VA
apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  • at maximum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  8.5 VA  8.5 VA		
at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  at maximum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  8.5 VA  — at 60 Hz  8.5 VA		0.7 171
<ul> <li>— at 50 Hz</li> <li>— at 60 Hz</li> <li>• at maximum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> <li>8.5 VA</li> <li>— at 60 Hz</li> </ul>		
<ul> <li>— at 60 Hz</li> <li>• at maximum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> <li>8.5 VA</li> <li>8.5 VA</li> </ul>		551/4
at maximum rated control supply voltage at AC     — at 50 Hz		
at 50 Hz 8.5 VA at 60 Hz 8.5 VA		5.5 VA
— at 60 Hz 8.5 VA	<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
	— at 50 Hz	8.5 VA
inductive power factor with the holding power of the coil	— at 60 Hz	8.5 VA
	inductive power factor with the holding power of the coil	

e at EO Hz  closing power of magnet coil at DC  closing power of magnet coil at DC  closing power of magnet coil at DC  d5	● at 50 Hz	0.5
holding power of magnet coll at DC	● at 60 Hz	0.4
closing delay  * all AC  * all DC  opening delay  * all AC  * all DC  opening delay  * all AC  * all DC  opening delay  * all AC  * all DC  * all	closing power of magnet coil at DC	580 W
	holding power of magnet coil at DC	3.4 W
• at DC opening delay • at AC • at DC arcing time control version of the switch operating mechanism control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable)  Auxillary circuit number of INC contacts for auxillary contacts instantaneous contact number of INC contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 800 V rated value • at 180 V rated value • at 220 V rated value • at 220 V rated value • at 180 V	closing delay	
copening delaty  at ICC  at Cord at Co	• at AC	45 80 ms
# ait AC	• at DC	45 80 ms
# at DC # 80 100 ms	opening delay	
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15  at 230 V rated value 3 A at 500 V rated value 1 A at 600 V rated value 3 A at 610 V rated value 4 At 70 V rated value 5 A at 800 V rated value 1 A 5 A 3 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	• at AC	80 100 ms
Control Version of the switch operating mechanism   PLC-IN or Standard A1 - A2 (adjustable)	• at DC	80 100 ms
Auxiliary circuit.  Tumber of NC contacts for auxiliary contacts instantaneous orited.  Tumber of NC contacts for auxiliary contacts instantaneous operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Description   Contracts for auxiliary contacts instantaneous   1	Auxiliary circuit	
Department current at AC-12 maximum   10 A   Operational current at AC-18   at 230 V rated value   5 A   4 40 V rated value   2 A   at 300 V rated value   2 A   at 350 V rated value   2 A   at 350 V rated value   2 A   at 350 V rated value   1 A   Operational current at DC-12   at 24 V rated value   6 A   6 A   at 360 V rated value   2 A   at 360 V rated value   3 A   at 360 V rated value   2 A   at 360 V rated value   3 A   3 A   at 360 V rated value   3 A		1
at 230 V rated value		1
at 230 V rated value     at 400 V rated value     at 400 V rated value     at 450 V rated value     at 690 V rated value     at 690 V rated value     at 45 V rated value     at 45 V rated value     at 46 V rated value     at 47 V rated value     at 48 V rated value     at 48 V rated value     at 100 V rated value     at 125 V rated value     at 220 V rated value     at 24 V rated value     at 24 V rated value     at 220 V rated value     at 24 V rated value     at 48 V rated value     at 20 V rated value     at 20 V rated value     at 220 V rated value     at 220 V rated value     at 600 V rated value     at 220 V rated value     at 4604 V rated value     at 220 V rated value     at 4604 V rated value     at 220/20 V rated value     at 576/600 V rated value     at 4604 V rated value     at 200/208 V rated value     at 4604 V rated value     at 200/208 V rated value     at 200/208 V rated value     at 4604 V rated value     at 200/208 V rated value     at 4604 V rated value     at 576/600 V rated value     at 4604 V rated value     at 576/600 V rated value     at 4604 V ra	·	10 A
### ### ### ### #### #### #### ########	-	
* at 500 V rated value		
a 1690 V rated value	• at 400 V rated value	3 A
Operational current at DC-12		
		1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 260 V rated value • at 260 V rated value • at 270 V rated value • at 280 V rated value • at 380 V rated value • at 160 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value • at 600 V rated value • at	•	
	at 48 V rated value	6 A
at 125 V rated value at 260 V rated value 0.15 A  operational current at DC-13  at 28V rated value 10 A at 48 V rated value 2 A at 48 V rated value 2 A at 600 V rated value 2 A at 48 V rated value 2 A at 100 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 0.9 A at 1220 V rated value 0.1 A contact reliability of auxiliary contacts  UL/CSA ratings full-load current (FLA) for 3-phase AC motor 1 at 480 V rated value 2 A 1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings full-load current (FLA) for 3-phase AC motor 1 at 480 V rated value 2 at 600 V rated value 3 at 600 V rated value 4 at 600 V rated value 5 at 600 V rated value 6 at 600 V rated value 7 at 600 V rated value 8 at	at 60 V rated value	6 A
at 220 V rated value at 800 V rated value 0.15 A  operational current at DC-13  at 24 V rated value 10 A  at 48 V rated value 2 A  at 60 V rated value 2 A  at 10 V rated value 3 A  at 25 V rated value 4 A F V rated value 5 A Tated value 9 A V rated value 9 A V ra	• at 110 V rated value	
operational current at DC-13  • at 24 V rated value	at 125 V rated value	
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 600 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 460/480 V rated value • 250 hp • at 4575/600 V rated value • 300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit  — with type of coordination 1 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required  Installation/mounting/dimensions	at 220 V rated value	
• at 24 V rated value 2 A   • at 48 V rated value 2 A   • at 48 V rated value 2 A   • at 60 V rated value 1 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 60 V rated value 0.1 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 600 V rated value 289 A    yielded mechanical performance [hp]   • for 3-phase AC motor   — at 200/228 V rated value 125 hp   — at 460/480 V rated value 250 hp   — at 460/480 V rated value 250 hp   — at 450/5600 V rated value 250 hp   — at 575/600 V rated value 250 hp   — at 575/600 V rated value 300 hp    contact rating of auxiliary contacts according to UL 3	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value 0.3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts  I 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 600 V rated value 302 A at 600 V rated value 289 A  yielded mechanical performance [hp]  of or 3-phase AC motor  - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 457/5600 V rated value - at 57/5600 V rated value - at 57/5600 V rated value - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required of or short-circuit protection of the main circuit of or short-circuit protection of the RLT relay output required of or short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A)	•	
at 10 V rated value at 110 V rated value 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 600 V rated value 302 A at 600 V rated value 289 A  yielded mechanical performance [hp]  for 3-phase AC motor - at 220/230 V rated value - at 220/230 V rated value - at 220/230 V rated value 250 hp - at 460/480 V rated value - at 575/600 V rated value 300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A)		
at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value  contact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  ULCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at		
at 125 V rated value at 220 V rated value at 260 V rated value be at 260 V rated value at 260 V rated value at 260 V rated value be at 260 V rated value at 260 V rated value be at 260 V rated value be at 360 V rated value at 260 V rated va		
at 220 V rated value at 600 V rated value  contact reliability of auxiliary contacts  I 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 at 600 V rated value  at 600 V rated value  for 3-phase AC motor  - at 200/208 V rated value - at 200/208 V rated value - at 220/230 V rated value - at 480 V rated value - at 480 V rated value - at 480 V rated value - at 250 hp - at 575/600 V rated value - at 575/600 V rated value 300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required  for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A)  Installation/ mounting/ dimensions		
a the street of the fuse link  a the street of short-circuit protection of the main circuit  — with type of assignment 2 required  a the street of short-circuit protection of the auxiliary switch required  a the street of short-circuit protection of the auxiliary switch required  a the street of survey and street of survey switching per 100 million (17 V, 1 mA)  1 faulty switching per 100 million (17 V, 1 mA)		
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  • at 600 V rated value  9 for 3-phase AC motor  - at 220/280 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  250 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required  with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  installation/ mounting/ dimensions		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • for 3-phase AC motor  — at 220/230 V rated value  — at 220/230 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  — at 575/600 V rated value  — at 575/600 V rated value  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required miniature fuse: 4 A FF (230 V, Ik= 400 A)  Installation/ mounting/ dimensions		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 220/230 V rated value  — at 460,480 V rated value  — at 460,480 V rated value  — at 575/600 V rated value  — at 575/600 V rated value  250 hp  — at 575/600 V rated value  250 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  • for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A)  Installation/ mounting/ dimensions		1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value at 600 V rated value  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  250 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  with type of coordination 1 required  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		
at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — ontact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		200 A
yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		
for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 460/480 V rated value         — at 575/600 V rated value         — at 675/600 V ra		289 A
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions	·	100 hp
- at 460/480 V rated value  - at 575/600 V rated value  300 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required  - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		·
- at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		·
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		
Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions		·
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the RLT relay output required  Installation/ mounting/ dimensions  • for short-direction of the RLT relay output required  • for short-direction of the RLT relay output required  • for short-direction of the RLT relay output required		7000 / Q000
for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required		
<ul> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> <li>— for short-circuit protection of the auxiliary switch required</li> <li>— for short-circuit protection of the RLT relay output required</li> <li>— with type of coordination 1 required</li> <li>— gG: 400 A (690 V, 100 kA)</li> <li>— gG: 10 A (500 V, 1 kA)</li> <li>— with type of assignment 2 required</li> <li>— gG: 10 A (500 V, 1 kA)</li> <li>— miniature fuse: 4 A FF (230 V, lk= 400 A)</li> </ul>	•	
<ul> <li>— with type of assignment 2 required</li> <li>gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)</li> <li>• for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>miniature fuse: 4 A FF (230 V, lk= 400 A)</li> <li>Installation/ mounting/ dimensions</li> </ul>	•	αG: 500 Δ (690 V 100 kΔ)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>for short-circuit protection of the RLT relay output required</li> <li>Installation/ mounting/ dimensions</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>miniature fuse: 4 A FF (230 V, lk= 400 A)</li> </ul>	*	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
• for short-circuit protection of the RLT relay output required miniature fuse: 4 A FF (230 V, Ik= 400 A)  Installation/ mounting/ dimensions	for short-circuit protection of the auxiliary switch required	
Installation/ mounting/ dimensions		
		(2007)
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	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
height	210 mm
width	165 mm
depth	202 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	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
type of connectable conductor cross-sections	
for AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes; safety-related disconnection via A1 A2
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN	100 FIT
31920	

ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

## **General Product Approval**





Confirmation





<u>KC</u>

**General Product Ap**proval

**EMV** 

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Cer**tificate** 

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping









Confirmation

other

Confirmation

other

Railway

**Environment** 

Miscellaneous

Special Test Certificate

**Environmental Con**firmations

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-6PP35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6PP35

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

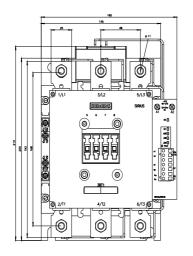
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PP3

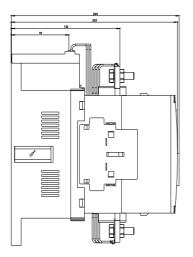
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

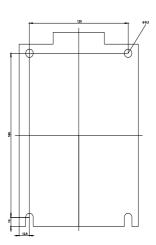
Characteristic: Tripping characteristics, I2t, Let-through current

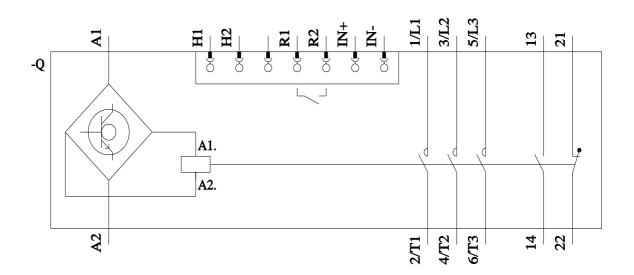
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PP35/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6PP35&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6PP35&objecttype=14&gridview=view1</a>









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