SIEMENS

Data sheet

3RT1066-6AF36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional 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 	7.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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	95 %

maximum	
lain 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 $^\circ\mathrm{C}$ 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 $^\circ\mathrm{C}$ rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— 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	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
ninimum cross-section in main circuit at maximum AC-1 rated value	185 mm ²
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value 	125 A
at 400 V rated value at 690 V rated value	125 A 115 A
• at 690 v rated value	
• at 1 current path at DC-1	
- at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 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	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	
— 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	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	0.13 A
• 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	102 (\\
- 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-	152 KW
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
• 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 n=30 rated value 	230 000 VA
 up to 1000 V for current peak value n=30 rated value 	160 000 VA
short-time withstand current in cold operating state up to	

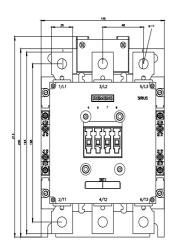
• Initials to 1s existing at 2ero current maximum 552 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 153 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 158 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 148 A. Use minimum cross-section act: b AC-1 rated value • Initials to 16 s existing at 2ero current maximum 148 A. Use minimum cross-section act: b AC-1 rated value • Initial to 17 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 16 section 2000 1/h 2000 1/h • Initial to 2	40 °C			
• mind b 15 s witching at zoro current maximum 4 57 A, Use minimum cross-sector act. b AC-1 rated value • indiad b 26 s switching at zoro current maximum 1 483 A, Use minimum cross-sector act. b AC-1 rated value • indiad b 26 s switching at zoro current maximum 1 483 A, Use minimum cross-sector act. b AC-1 rated value • indiad b 26 switching frequency 2000 rh • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V • indiad b 26 switching frequency 100 rb 27 V	 limited to 1 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value		
e93 A. Use minimum cross-section ac. D. AC-1 rated value• limited to 63 s sutching at zero current maximum1485 A. Use minimum cross-section ac. D. AC-1 rated value• e IAC2 000 th• e IAC2 000 th• e IAC2 000 th• e IAC-1 maximum250 th• IAC-2 maximum250 th• IAC	-			
• Initial of 0 5 subtifuing at zero current maximum1883.4. Use minimum dross-section acc. to AC-1 tatlet valueno-load subtifuing frequency2 000 1/h• A AC2 000 1/h• AC DC2 000 1/hoperating frequency50 1/h• AL AC-2 maximum500 1/h• AL AC-2 maximum100 1/2• AL AC-2 maximum0.8• AL AC-2 maximum0.8<	-			
• Initial di 03 e sudicing progency 1445 A: Use minimum dross-section so: to AC-1 rated value • el AC 2000 In • el AC 2000 In • el AC 2000 In • el AC-1 maximum 2000 In • el AC-3 maximum 2000 In • el AC-4 maximum 10	-			
• # AC 2 000 th • eit DC 2 000 th operating frequency	-			
• # AC 2 000 th • eit DC 2 000 th operating frequency	no-load switching frequency			
operating requency - • at AC-1 maximum 250 1h • at AC-2 maximum 500 1h • at AC-3 maximum 500 1h • at AC-3 maximum 500 1h • at AC-3 maximum 500 1h • at AC-4 maximum 10 • at AC-4 maximum 11 • at AC-4 maximum 11 <t< th=""><td></td><td>2 000 1/h</td></t<>		2 000 1/h		
• at AC-1 maximum 750 th • at AC-2 maximum 250 th • at AC-3 maximum 500 th • at AC-3 maximum 500 th • at AC-4 maximum 600 th • at AC-4 maximum 500 th • at AC-4 maximum 600 th • at AC-4 maximum 600 th • at AC-4 maximum 100127 V • at BO Atmate Value 110127 V • at BO Atmate Value 110127 V • at BO Atmate Value 1.1 • at BO Atmate Value 0.8 • at BO Ath 0.8 <tr< th=""><td>● at DC</td><td>2 000 1/h</td></tr<>	● at DC	2 000 1/h		
- at AC-2 maximum 250 1h - at AC-3 maximum 500 1h - at AC-4 maximum AC-00C - at AC-4 maximum 10 127 V - at BO 1r z rated value 110 127 V - at BO 1r z rated value 110 127 V - operating range factor control supply voltage rated value 110 127 V - operating range factor control supply voltage rated value 110 127 V - operating range factor control supply voltage rated value 110 127 V - operating range factor control supply voltage rated value 0.8 - int BO 1r2 0.8 11 - operating range factor control supply voltage rated value 110 - operating range factor control supply voltage rated value 0.8 11 - operating range factor control supply voltage rated value 0.8 11 - operating range factor control supply voltage rated value 0.8 11 - operating range factor control supply voltage rat AC	operating frequency			
ait AC-3 maximum500 th• at AC-3 maximum500 th• at AC-3 maximum500 th• at AC-3 maximum500 th• at AC-3 maximumACACC• at S0 Hz rated value100 127 V• at S0 Hz rated value110 127 V• at S0 Hz rated value110 127 V• at at Value0.8• initial value0.8 <trr>• initial value0.9<t< th=""><td>• at AC-1 maximum</td><td>750 1/h</td></t<></trr>	• at AC-1 maximum	750 1/h		
• at AC-4 maximum500 lh• at AC-4 maximum130 lh• dat AC-4 maximum130 lh• dat Control supply voltageAC/DC• control supply voltage at AC100 127 V• at 50 Hz rated value110 127 V• at 60 liz rated value110 127 V• at at 00 liz rated value110 127 V• at at 00 liz rated value0.8• rated value0.8• rated value0.8• full scale value0	● at AC-2 maximum	250 1/h		
e at AC-4 maximum130 l/hControl supply voltage of the control supply voltageAC/DCcontrol supply voltage at AC110 127 V• at S0 Hz rated value110 127 Vcontrol supply voltage at DC110 127 V• rated value110 127 Vor atted value0.8• initial value0.8• full scale value1.1• full scale value0.8• full scale value0.8• full scale value0.8• full scale value0.8• att S0 Hz0.8• att S0 Hz900 VA• att S0 Hz900 VA• att S0 Hz900 VA• att S0 Hz500 VA• att S0 Hz500 VA• att S0 Hz500 VA• att S0 Hz900 VA	● at AC-3 maximum	500 1/h		
Control circuit/ Control ACIDC • at 30 Hz rated value 110127 V • at 60 Hz rated value 0.8 • rated value 0.8 • initial value 0.8 • full scale value 0.8 • at 0.12 0.8 • at 0.12 0.8 • at 0.12 0.8 • at 0.12 0.9 • at 0.12 500 VA • at 0.12 500 VA • at 0.12 500 VA	• at AC-3e maximum	500 1/h		
type of voltage of the control supply voltage AC/DC control supply voltage at AC	● at AC-4 maximum	130 1/h		
Control supply voltage at AC 110 127 V • at 50 Hz rated value 110 127 V control supply voltage at DC 110 127 V • rated value 110 127 V control supply voltage at DC 110 127 V • rated value 0.8 • initial value 0.8 • initial value 0.8 • initial value 0.8 • at 50 Hz 0.8 • at 60 Hz 490 VA • at at 50 Hz 590 VA • at 50 Hz 590 VA • at 50 Hz 590 VA • at 50 Hz 0.9 <	Control circuit/ Control			
control supply voltage at AC110 127 V• at 50 Hz rated value110 127 Vcontrol supply voltage at DC110 127 V• rated value110 127 V• rated value0.8• rated value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8• at 50 Hz0.8• at 50 Hz0.8• at 50 Hz0.8• at 60 Hz0.8• at 60 Hz0.8• at 60 Hz0.8• at 60 Hz580 VA- at 60 Hz590 VA- at 60 Hz590 VA• at 50 Hz0.9• at 60 Hz590 VA- at 60 Hz590 VA• at 60 Hz61 VA• at 60 Hz61 VA• at 60 Hz58 VA• at 60 Hz58 VA• at 60 Hz58 VA• at 60 Hz58 VA• at 60 Hz67 VA<	type of voltage of the control supply voltage	AC/DC		
• at 60 Hz rated value110 127 Vcontrol supply voltage at DC-• rated value110 127 Voperating range factor control supply voltage rated value of minital value0.8• linitia value0.8• linitia value0.8• linitia value0.8• at 60 Hz0.8 1.1• at 60 Hz0.9• at 70 Hz400 VA• at 70 Hz400 VA• at 70 Hz500 VA- at 60 Hz67 VA- at 60 Hz67 VA- at 60 Hz56 VA- at 60 Hz56 VA- at 60 Hz56 VA- at 60 Hz67 VA- at 60 Hz67 VA- at 60 Hz <td></td> <td></td>				
control supply voltage at DC 110 127 V operating range factor control supply voltage rated value of magnet coll at DC 0.8 initial value 0.9 initial value 0.9 initial value 0.9 initial value 0.9		110 127 V		
control supply voltage at DC 110 127 V operating range factor control supply voltage rated value of magnet coll at DC 0.8 initial value 0.9 initial value 0.9 initial value 0.9 initial value 0.9				
• rated value110 127 Voperating range factor control supply voltage rated value of mignet coil at DC0.8• initial value0.8• full-scale value0.1• at so Hz0.8 1.1• at so Hz0.9 VA• at minimum rated control supply voltage at AC 1.5 O HZ at so Hz590 VA• at so Hz0.9• at so Hz0.9• at so Hz0.9• at so Hz0.9• at so Hz5.6 VA• at so Hz5.6 VA• at so Hz5.6 VA• at minimum rated control supply voltage at DC• at minimum rated control supply voltage at DC• at maximum rated control supply voltage at CC• at so Hz5.6 VA• at so Hz• at so Hz• at so Hz• at minimum rated control supply voltage at CC• at so Hz• at	control supply voltage at DC			
misgnet coil at DCNo. No. No. No. No. No. No. No. No. No.		110 127 V		
• full-scale value1.1operating range factor control supply voltage rated value of magnet coil at AC0.8• at 50 Hz0.80.1• at 60 Hz0.80.1design of the surge suppressorwith varistorapparent pick-up power400 VA at 60 Hz490 VA at 60 Hz490 VA at 60 Hz590 VA at 60 Hz590 VA at 50 Hz590 VA at 50 Hz590 VA at 60 Hz590 VA at 60 Hz590 VA at 60 Hz590 VA at 50 Hz590 VA at 50 Hz590 VA at 60 Hz0.9 at 60 Hz590 VA at 60 Hz590 VA at 50 Hz580 VA at 60 Hz0.9 at 60 Hz5.6 VA at 60 Hz5.6 VA at 60 Hz5.6 VA at 60 Hz5.6 VA at 60 Hz6.7 VA at 60 Hz <td< th=""><td></td><td></td></td<>				
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 design of the surge suppressor with varistor apparent pick-up power • • at minimum rated control supply voltage at AC - at 60 Hz 490 VA at 60 Hz 590 VA at 60 Hz 590 VA at 50 Hz 0.9 at 60 Hz 0.9 at 60 Hz 0.9 at 60 Hz 0.9 at 60 Hz 5.6 VA at 60 Hz 5.6 VA at 60 Hz 6.7 VA	• initial value	0.8		
magnet coll at AC0.8• at 50 Hz0.8• at 60 Hz0.8• at 60 Hz0.8• at minimum rated control supply voltage at AC- at 50 Hz490 VA- at 60 Hz490 VA• at maximum rated control supply voltage at AC- at 50 Hz590 VA- at 60 Hz590 VA- at 50 Hz590 VA- at 60 Hz6.1 VA- at 60 Hz0.9- at 60 Hz7.4 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz6.7 VA- at 60 Hz<	• full-scale value	1.1		
• at 60 Hz0.8 1.1design of the surge suppressorwith variatorapparent pick-up powerwith variator• at minimum rated control supply voltage at AC490 VA- at 60 Hz490 VA- at 60 Hz590 VA- at 60 Hz590 VA- at 50 Hz590 VA- at 60 Hz590 VA- at 60 Hz590 VA- at 60 Hz590 VA- at 60 Hz0.9- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz6.7				
design of the surge suppressor with variator apparent pick-up power * • at minimum rated control supply voltage at AC 490 VA - at 60 Hz 490 VA • at maximum rated control supply voltage at AC - - at 60 Hz 590 VA - at 60 Hz 590 VA - at 60 Hz 590 VA - at 50 Hz 590 VA apparent pick-up power of magnet coll at AC 590 VA • at 50 Hz 590 VA • at 60 Hz 0.9 • at 60 Hz 0.9 • at 60 Hz 0.9 • at maximum rated control supply voltage at DC 7.4 VA apparent holding power 6.1 VA • at maximum rated control supply voltage at AC - - at 60 Hz 5.6 VA - at 60 Hz 5.6 VA - at 60 Hz 6.7 VA <t< th=""><td>● at 50 Hz</td><td>0.8 1.1</td></t<>	● at 50 Hz	0.8 1.1		
apparent pick-up power • at minimum rated control supply voltage at AC - at 50 Hz 490 VA - at 60 Hz 490 VA • at maximum rated control supply voltage at AC 490 VA - at 60 Hz 590 VA • at 50 Hz 590 VA • at 60 Hz 590 VA • at 60 Hz 590 VA • at 60 Hz 0.9 • at 60 Hz 0.9 • at 60 Hz 0.9 • at minimum rated control supply voltage at DC 6.1 VA • at minimum rated control supply voltage at DC 7.4 VA apparent holding power 5.6 VA • at minimum rated control supply voltage at AC - - at 50 Hz 5.6 VA - at 60 Hz 5.6 VA - at 60 Hz 6.7 VA apparent holding power of magnet coil at AC	● at 60 Hz	0.8 1.1		
 at minimum rated control supply voltage at AC -at 50 Hz 490 VA -at 60 Hz 490 VA at maximum rated control supply voltage at AC -at 60 Hz 590 VA -at 50 Hz 590 VA apparent pick-up power of magnet coil at AC at 60 Hz 590 VA at 60 Hz 590 VA at 60 Hz 590 VA at 60 Hz 6.1 VA at maximum rated control supply voltage at DC 6.1 VA at maximum rated control supply voltage at DC 6.1 VA at maximum rated control supply voltage at DC 7.4 VA apparent holding power at 60 Hz 5.6 VA -at 60 Hz 6.7 VA -at 60 Hz 7.7 VA apparent holding power of magnet coil at AC -at 50 Hz -at 50 Hz -at 60 Hz 7.7 VA apparent holding power of magnet coil at AC -at 50 Hz -at 50 Hz -at 60 Hz 7.7 VA apparent holding power of magnet coil at AC -at 60 Hz -at 50 Hz -at 60 Hz -7 VA -3 60 Hz -7 VA -3 60 Hz -7 VA -3 60 Hz -3 60 Hz -3 7 VA 	design of the surge suppressor	with varistor		
at 50 Hz490 VA at 60 Hz490 VA• at maximum rated control supply voltage at AC590 VA at 50 Hz590 VAapparent pick-up power of magnet coil at AC590 VA• at 50 Hz590 VA• at 50 Hz590 VA• at 50 Hz590 VA• at 50 Hz590 VA• at 50 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at minimum rated control supply voltage at DC7.4 VAapparent holding power6.1 VA• at minimum rated control supply voltage at DC7.4 VAapparent holding power5.6 VA at 60 Hz5.6 VA at 60 Hz5.6 VA at 60 Hz5.6 VA at 60 Hz6.7 VA	apparent pick-up power			
	 at minimum rated control supply voltage at AC 			
• at maximum rated control supply voltage at AC590 VA at 50 Hz590 VAapparent pick-up power of magnet coil at AC590 VA• at 50 Hz590 VA• at 50 Hz590 VA• at 60 Hz590 VA• at 60 Hz590 VA• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at maximum rated control supply voltage at DC6.1 VA• at minimum rated control supply voltage at DC7.4 VAapparent holding power6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power5.6 VA- at 60 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz6.7 VA- at 60 Hz6.7 VA- at 60 Hz6.7 VA- at 60 Hz6.7 VA• at 60 Hz0.9• at 60 Hz0.9	— at 50 Hz	490 VA		
	— at 60 Hz	490 VA		
at 50 Hz590 VAapparent pick-up power of magnet coil at AC590 VA• at 50 Hz590 VA• at 60 Hz590 VAinductive power factor with closing power of the coil0.9• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at minimum rated control supply voltage at DC7.4 VAapparent holding power6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power5.6 VA• at maximum rated control supply voltage at AC5.6 VA at 50 Hz5.6 VA at 60 Hz6.7 VAapparent holding power of magnet coil at AC6.7 VA at 60 Hz6.7 VA at 60 Hz0.9 at 60 Hz0.9 at 60 Hz0.9	 at maximum rated control supply voltage at AC 			
apparent pick-up power of magnet coil at AC590 VA• at 50 Hz590 VA• at 60 Hz590 VAinductive power factor with closing power of the coil	— at 60 Hz	590 VA		
• at 50 Hz590 VA• at 60 Hz590 VAinductive power factor with closing power of the coil		590 VA		
• at 60 Hz590 VAinductive power factor with closing power of the coil				
inductive power factor with closing power of the coil0.9a t 50 Hz0.9apparent holding power0.9a t minimum rated control supply voltage at DC6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power7.4 VAapparent holding power7.4 VA• at minimum rated control supply voltage at AC at 50 Hz5.6 VA- at 60 Hz5.6 VA- at 60 Hz6.7 VA- at 60 Hz0.9- at 60 Hz0.9				
• at 50 Hz0.9• at 60 Hz0.9apparent holding power6.1 VA• at minimum rated control supply voltage at DC6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power7.4 VA• at minimum rated control supply voltage at AC7.4 VA at 50 Hz5.6 VA at 60 Hz5.6 VA at 50 Hz5.6 VA at 50 Hz6.7 VA at 60 Hz6.7 VA at 50 Hz6.7 VA at 60 Hz6.7 VA		590 VA		
• at 60 Hz0.9apparent holding power6.1 VA• at minimum rated control supply voltage at DC6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power-• at minimum rated control supply voltage at AC at 50 Hz5.6 VA- at 60 Hz5.6 VA• at maximum rated control supply voltage at AC at 50 Hz6.7 VA- at 60 Hz6.7 VAapparent holding power of magnet coil at AC at 50 Hz6.7 VA- at 60 Hz6.7 VA- at 60 Hz6.7 VA- at 50 Hz6.7 VA- at 60 Hz0.9- at 60 Hz0.9				
apparent holding power6.1 VA• at minimum rated control supply voltage at DC6.1 VA• at maximum rated control supply voltage at DC7.4 VAapparent holding power-• at minimum rated control supply voltage at AC at 50 Hz5.6 VA- at 60 Hz5.6 VA• at maximum rated control supply voltage at AC at 50 Hz6.7 VA- at 50 Hz6.7 VA- at 60 Hz0.9 - at 60 Hz0.9				
 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 5.6 VA at maximum rated control supply voltage at AC at 60 Hz 5.6 VA at maximum rated control supply voltage at AC at 60 Hz 6.7 VA apparent holding power of magnet coil at AC at 50 Hz 6.7 VA at 60 Hz 6.7 VA at 60 Hz 6.7 VA at 60 Hz 0.9 		0.9		
• at maximum rated control supply voltage at DC7.4 VAapparent holding power				
apparent holding power				
• at minimum rated control supply voltage at AC5.6 VA- at 50 Hz5.6 VA- at 60 Hz5.6 VA• at maximum rated control supply voltage at AC at 50 Hz6.7 VA- at 60 Hz6.7 VAapparent holding power of magnet coil at AC-• at 50 Hz6.7 VA• at 60 Hz6.7 VA• at 60 Hz6.7 VA• at 60 Hz0.7 VA• at 60 Hz0.9• at 60 Hz0.9		7.4 VA		
at 50 Hz5.6 VA at 60 Hz5.6 VA• at maximum rated control supply voltage at AC at 50 Hz6.7 VA at 60 Hz6.7 VA• at 60 Hz0.9• at 60 Hz0.9				
at 60 Hz5.6 VA• at maximum rated control supply voltage at AC at 50 Hz6.7 VA at 60 Hz6.7 VAapparent holding power of magnet coil at AC-• at 50 Hz6.7 VA• at 60 Hz6.7 VA• at 60 Hz6.7 VA• at 60 Hz0.9• at 50 Hz0.9				
• at maximum rated control supply voltage at AC6.7 VA at 50 Hz6.7 VA at 60 Hz6.7 VAapparent holding power of magnet coil at AC6.7 VA• at 50 Hz6.7 VA• at 60 Hz6.7 VAinductive power factor with the holding power of the coil6.7 VA• at 50 Hz0.9• at 60 Hz0.9				
at 50 Hz6.7 VA at 60 Hz6.7 VAapparent holding power of magnet coil at AC		5.6 VA		
at 60 Hz6.7 VAapparent holding power of magnet coil at AC6.7 VA• at 50 Hz6.7 VA• at 60 Hz6.7 VAinductive power factor with the holding power of the coil0.9• at 50 Hz0.9				
apparent holding power of magnet coil at AC6.7 VA• at 50 Hz6.7 VA• at 60 Hz6.7 VAinductive power factor with the holding power of the coil0.9• at 50 Hz0.9				
• at 50 Hz6.7 VA• at 60 Hz6.7 VAinductive power factor with the holding power of the coil6.7 VA• at 50 Hz0.9• at 60 Hz0.9		6.7 VA		
• at 60 Hz6.7 VAinductive power factor with the holding power of the coil0.9• at 50 Hz0.9• at 60 Hz0.9				
inductive power factor with the holding power of the coil• at 50 Hz0.9• at 60 Hz0.9				
• at 50 Hz 0.9 • at 60 Hz 0.9		6.7 VA		
• at 60 Hz 0.9				
closing power of magnet coil at DC 650 W				
cooling period of integration at Do	closing power of magnet coil at DC	650 W		

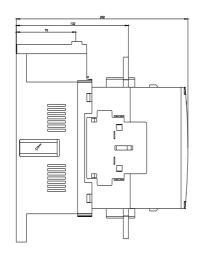
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	2
contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
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	1A
operational current at DC-12	
at 24 V rated value	10 A
	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	302 A
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 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)
- with type of assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
for short-circuit protection of the auxiliary switch required	kA) 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
	100
	210 mm
height width	210 mm 145 mm

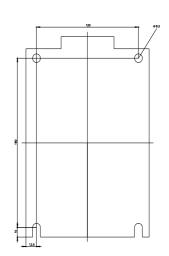
depth	202 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
 for auxiliary and control circuit 	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 mm²
 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 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)
 finely stranded with core end processing 	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	10 14
product function	
mirror contact according to IEC 60947-4-1	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
T1 value for proof test interval or service life according to IEC	20 a
61508	
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
Certificates/ approvals	
General Product Approval	
Confirmation Confirmation	
EMC Functional Declaration o	f Conformity Test Certificates

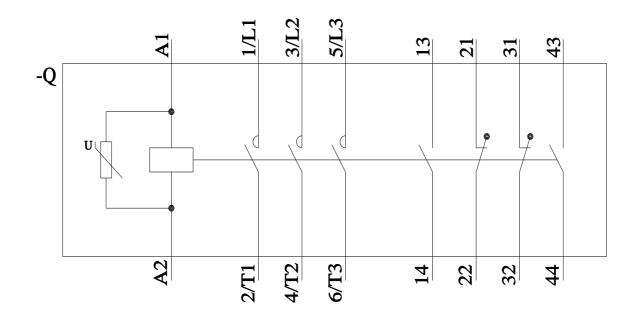
Subject to change without notice © Copyright Siemens

https://press.siemens.com/global/en/pressr Siemens is working on the renewal of th Please contact your local Siemens office on EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/er Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates,	Cer- CA	ery Examination Cer- tificate	C E EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
other Miscellaneous Confirmation Environment Environmental Con- firmations Environmental Con- firmations Siemens has decided to exit the Russian https://press.siemens.com/global/en/pressr Siemens has decided to exit the Russian https://press.siemens.com/global/en/pressr Siemens is working on the renewal of the Please contact your local Siemens office on EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/mall/en/er Cax online generator http://support.automation.siemens.com/wW Service&Support (Manuals, Certificates,	g	ne / Shipping			
Miscellaneous Confirmation Environment Environmental Con- firmations further information Siemens has decided to exit the Russian https://press.siemens.com/global/en/pressr Siemens is working on the renewal of th Please contact your local Siemens office oi EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/c Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates,	Lloyd's Register urs	ABS	PRS	RMRS	DNV-GL DNV-GL
Environment Environmental Con- firmations iurther information Siemens has decided to exit the Russian https://press.siemens.com/global/en/pressr Siemens is working on the renewal of th Please contact your local Siemens office on EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/c Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates,				Railway	
Environmental Con- firmations urther information Siemens has decided to exit the Russian https://press.siemens.com/global/en/pressr Siemens is working on the renewal of th Please contact your local Siemens office or EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/e Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates,	<u>Confirmation</u>	Confirmation	<u>Miscellaneous</u>	<u>Vibration and Shock</u>	<u>Special Test Certific-</u> <u>ate</u>
Siemens has decided to exit the Russian https://press.siemens.com/global/en/press Siemens is working on the renewal of th Please contact your local Siemens office of EAC relevant market (other than the sancti Information on the packaging https://support.industry.siemens.com/cs/ww Information- and Downloadcenter (Catal https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/c Cax online generator http://support.automation.siemens.com/WW Service&Support (Manuals, Certificates,					
Image database (product images 2D dir	Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-6AF36				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AF36⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AF36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AF36&objecttype=14&gridview=view1				ms, EPLAN macros,)	









8/15/2023 🖸

8/17/2023

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens: 3RT10666AF36