SIEMENS

Data sheet

3RT1056-6AF36-3PA0



power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V AC/DC auxiliary contacts 2 NO + 2 NC lateral, permanently mounted 3-pole, frame size S6 busbar connections drive: conventional

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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 	39 W
 at AC in hot operating state per pole 	13 W
 without load current share typical 	5.2 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 safe isolation 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 (switching 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
	-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-3 rated value maximum at AC-3e rated value maximum	
operational current	1 000 V
•	04F A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	215 A
rated value	213 A
— up to 690 V at ambient temperature 60 °C	185 A
rated value	
— up to 1000 V at ambient temperature 40 °C	100 A
rated value	
— up to 1000 V at ambient temperature 60 °C	100 A
rated value	
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
 at AC-4 at 400 V rated value 	160 A
 at AC-5a up to 690 V rated value 	189 A
 at AC-5b up to 400 V rated value 	153 A
• at AC-6a	100 /
 up to 230 V for current peak value n=20 rated 	157 A
value	157 A
— up to 400 V for current peak value n=20 rated	157 A
value	
 up to 500 V for current peak value n=20 rated 	157 A
value	
— up to 690 V for current peak value n=20 rated	157 A
value	
— up to 1000 V for current peak value n=20 rated	65 A
value	
• at AC-6a	
 up to 230 V for current peak value n=30 rated 	105 A
value	105.4
 — up to 400 V for current peak value n=30 rated value 	105 A
— up to 500 V for current peak value n=30 rated	105 A
value	
— up to 690 V for current peak value n=30 rated	105 A
value	
— up to 1000 V for current peak value n=30 rated	65 A
value	
minimum cross-section in main circuit at maximum AC-1	95 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	04.4
• at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
 at 1 current path at DC-1 	

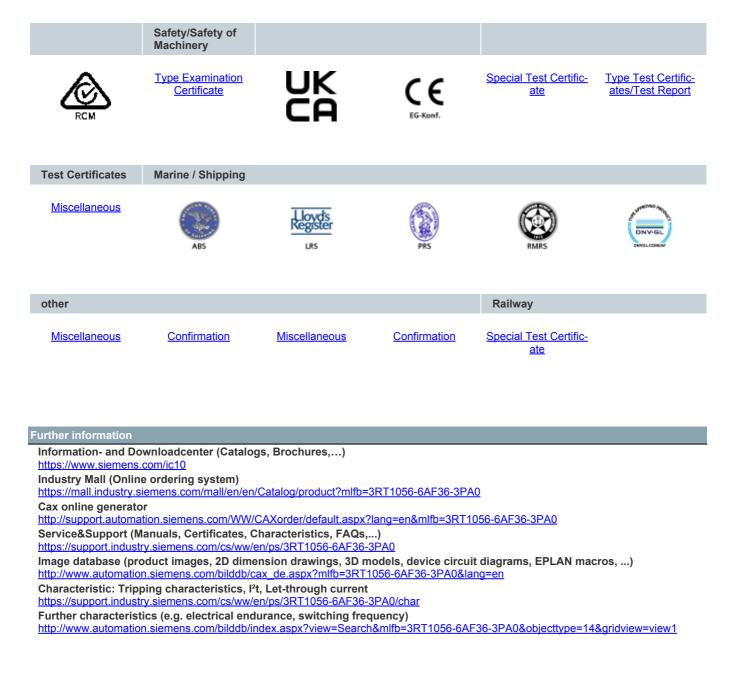
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
 at AC-2 at 400 V rated value 	90 kW
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	45 kW
at 690 V rated value	65 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
• up to 500 V for current peak value n=20 rated value	130 000 VA
• up to 690 V for current peak value n=20 rated value	180 000 VA
• up to 1000 V for current peak value n=20 rated	110 000 VA
value	
operating apparent power at AC-6a	

 up to 230 V for current peak value n=30 rated value 	40 000 VA
 up to 400 V for current peak value n=30 rated value 	70 000 VA
• up to 500 V for current peak value n=30 rated value	90 000 VA
• up to 690 V for current peak value n=30 rated value	120 000 VA
 up to 1000 V for current peak value n=30 rated 	110 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	
Imited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	2 084 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	801 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
● at AC-1 maximum	800 1/h
● at AC-2 maximum	300 1/h
● at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	110 127 V
• at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
 initial value 	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	000.1/4
• at 50 Hz	300 VA
• at 60 Hz	300 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 VA
• at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 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	2
instantaneous contact	
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	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	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	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	400 A
	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
for single-phase AC motor	221
— at 230 V rated value	30 hp
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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: 355 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
	V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
mounting position	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— upwarus	

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		20 mm
- at the side 10 mm - downwards 10 mm - for log parts 20 mm - upwards 10 mm - downwards Screw-type terminals - downwards 9 mm - downwards 9 mm - downwards 1 mm - downowards 1 mm		
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- downwards - d the side 10 mm - downwards - d the side 10 mm - downwards - d the side 10 mm Second Connection Evandation connection - drawdiary and control circuit - sid contactor for auxiliary contacts - of magnet coll Connection bar - screw-type terminals - Screw-type terminals width of connection bar - and connection bar 3 mm diameter of holes - stranded 1 connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for main connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-sections - standed 0.5 4 mm ² . solid or stranded - sol		
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type of electrical connection for main current dreut! for auxiliary and contol dreut! at contactor for auxiliary contacts of magnet coll width of connection bar final sequence of the sequence of		10 mm
• for main current circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil • of auxiliary contacts	Connections/ Terminals	
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diameter of holes 9 mm number of holes 1 type of connectable conductor cross-sections 4250 kcmil • at AWG cables for main contacts 4250 kcmil connectable conductor cross-section for auxiliary contacts 9	width of connection bar	17 mm
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last modified:

3/24/2022 🖸