SIEMENS

Data sheet

3RT1075-6AF36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
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 	105 W
 at AC in hot operating state per pole 	35 W
 without load current share typical 	10 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
 during storage 	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum Main circuit	
	3
number of poles for main current circuit number of NO contacts for main contacts	3
	3
operating voltage	4.000.17
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 	430 A
rated value	
• at AC-1	400.4
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C	400 A
rated value	
— up to 1000 V at ambient temperature 40 °C	200 A
rated value	
— up to 1000 V at ambient temperature 60 °C	200 A
rated value	
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	350 A
	378 A
• at AC-5a up to 690 V rated value	332 A
• at AC-5b up to 400 V rated value	552 A
• at AC-6a	005 A
 — up to 230 V for current peak value n=20 rated value 	395 A
— up to 400 V for current peak value n=20 rated	395 A
value	555 A
— up to 500 V for current peak value n=20 rated	395 A
value	
— up to 690 V for current peak value n=20 rated	395 A
value	
— up to 1000 V for current peak value n=20 rated	180 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	264 A
value	264.4
 — up to 400 V for current peak value n=30 rated value 	264 A
— up to 500 V for current peak value n=30 rated	264 A
value	2017
— up to 690 V for current peak value n=30 rated	264 A
value	
— up to 1000 V for current peak value n=30 rated	180 A
value	
minimum cross-section in main circuit at maximum AC-1	300 mm ²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	150.4
at 400 V rated value	150 A
at 690 V rated value	135 A
operational current	
 at 1 current path at DC-1 	

	— at 24 V rated value	400 A
• with 2 current paths in series at DC-1 00 A - at 220 V rated value 400 A - at 220 V rated value 2 A • with 3 current path in series at DC-1 - - at 220 V rated value 400 A - at 210 V rated value 400 A - at 220 V rated value 52 A - at 220 V rated value 52 A - at 220 V rated value 00 A - at 220 V rated value 01 B A - at 220 V rated value 25 A - at 220 V rated value 00 A - at 220 V rated value 0.37 A • with 3 current path in series at		
		0.6 A
	-	
	— at 110 V rated value	400 A
	— at 220 V rated value	
• with 3 current paths in series at DC-1 400 A - at 24 V rited value 400 A - at 220 V rated value 400 A - at 220 V rated value 11 A - at 600 V rated value 52 A • at 1 current path at DC-3 at DC-5	— 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	400 A
	— at 110 V rated value	400 A
	— at 220 V rated value	400 A
• et 1 current path at DC-3 at DC-5 400 A - af 24 V rated value 3 A - at 220 V rated value 0.6 A - at 440 V rated value 0.18 A - at 600 V rated value 0.18 A - at 24 V rated value 0.18 A - at 440 V rated value 0.18 A - at 440 V rated value 400 A - at 440 V rated value 400 A - at 440 V rated value 2.5 A - at 440 V rated value 0.65 A - at 220 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-3 th DC-3 - at 400 V rated value - at 220 V rated value 400 A - at 220 V rated value 400 A - at 220 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-3 th DC-3 - at 230 V rated value - at 230 V rated value 400 A - at 440 V rated value 400 A - at 440 V rated value 200 kW - at 440 V rated value 200 kW - at 440 V rated value 200 kW - at 230 V rated value 200 kW - at 230 V rate	— 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	400 A
	— at 110 V rated value	3 A
	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-5 400 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	400 A
	— at 110 V rated value	400 A
	— at 220 V rated value	2.5 A
• with 3 current paths in series at DC-3 at DC-5 400 A at 24 V rated value 400 A at 110 V rated value 400 A at 120 V rated value 400 A at 220 V rated value 400 A at 440 V rated value 14 A at 600 V rated value 0.75 A operating power • • at AC-3 - at 200 V rated value 200 kW at 400 V rated value 200 kW at 400 V rated value 250 kW at 230 V rated value 250 kW at 240 V rated value 250 kW at 230 V rated value 250 kW at 2400 V rated value 200 kW at 230 V rated value 200 kW at 230 V rated value 200 kW at 400 V rated value 200 kW at 400 V rated value 200 kW at 500 V rated value 200 kW at 600 V rated val	— 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 	
	-	400 A
		400 A
at 600 V rated value0.75 Aoperating power- at 230 V rated value- at 230 V rated value132 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value200 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 690 V rated value250 kW- at 100 V rated value250 kW- at 000 V rated value250 kW- at 000 V rated value250 kW- at 230 V for current peak value n=20 rated value132 kW- up to 630 V for current peak value n=20 rated value150 000 kVA- up to 600 V for current peak value n=20 rated value340 000 VA- up to 1000 V for current peak value n=20 rated value470 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000	— at 220 V rated value	
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 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a 		
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value operating apparent power at AC-6a		
		310 000 VA
up to 230 V for current peak value n=30 rated value 100 000 VA	operating apparent power at AC-6a	
	 up to 230 V for current peak value n=30 rated value 	100 000 VA

 up to 400 V for current peak value n=30 rated value 	180 000 VA
 up to 500 V for current peak value n=30 rated value 	220 000 VA
 up to 690 V for current peak value n=30 rated value 	310 000 VA
 up to 1000 V for current peak value n=30 rated 	310 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	6 600 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	5 761 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	4 143 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	2 635 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	2 088 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 	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 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	
• at 50 Hz	830 VA
• at 60 Hz	830 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	9.2 VA
• at 60 Hz	9.2 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 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 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	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	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	361 A
• at 600 V rated value	382 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 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: 630 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415
 for short-circuit protection of the auxiliary switch required 	V, 50 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
height	214 mm
width	160 mm
depth	225 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 ownwards 10 mm ownwards 10 mm upwards 10 mm downwards 10 mm at the side 10 mm at the side 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	
- downwards 10 mm • for live parts - - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm Connections/ Terminals	
for live parts forwards proversion proversion<td></td>	
forwards 20 mm upwards 10 mm downwards 10 mm at the side 10 mm	
downwards 10 mm at the side 10 mm Connections/ Terminals 10 mm	
— at the side 10 mm Connections/ Terminals 10 mm	
Connections/ Terminals	
type of electrical connection	
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	
at AWG cables for main contacts 2/0 500 kcmil	
connectable conductor cross-section for main	
connectable conductor cross-section for main contacts	
• stranded 70 240 mm ²	
connectable conductor cross-section for auxiliary	
contacts	
• solid or stranded 0.5 4 mm ²	
• finely stranded with core end processing 0.5 2.5 mm ²	
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4	mm²)
- solid or stranded 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4	
- finely stranded with core end processing $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$,
at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12	
AWG number as coded connectable conductor cross	
section	
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section • for auxiliary contacts 18 14 Safety related data	
section • for auxiliary contacts 18 14 Safety related data product function	
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<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
Marine / Shipping					other
ABS	Hoyds Register us	PRS	RAFS	DNV-GL	<u>Confirmation</u>
other			Railway		
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate		

	Further	information	
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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=3RT1075-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AF36

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

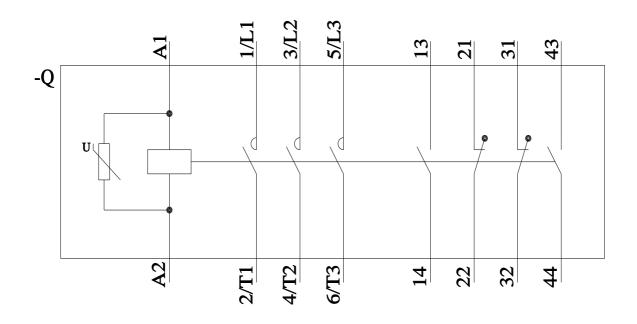
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AF36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6AF36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AF36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AF36&objecttype=14&gridview=view1



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