SIEMENS

Data sheet

3RT1075-6AU36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 240-277 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product designation Power contactor product type designation 3RT1 General technical data	product brand name	SIRIUS
General technical data S12 size of contactor S12 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 105 W • 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 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 8,5g / 5 ms, 4.2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 10 000 000 • at DC 5000 000 • of the contactor with added auxiliary switch block typical 10	product designation	Power contactor
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	reference code according to IEC 81346-2	Q
Substance Prohibitance (Date) 05/01/2012	Substance Prohibitance (Date)	05/01/2012
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -25 +60 °C	during operation	-25 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C

platty humidity at 55 °C according to IEC 60089-2-30 maximum 95 % Almo Feruit	relative humidity minimum	10 %
Malh circuit 3 number of ND Contacts for main contacts 3 operating voltage 4 • al AC-3 rated value maximum 1000 V • al AC-1 at 400 V at ambient temperature 40 °C 430 A - rated value 430 A - rated value 400 A - up to 509 V at ambient temperature 40 °C 200 A - rated value 400 A - rated value 400 A - at 400 V rated value </th <th></th> <th>95 %</th>		95 %
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	— at 400 V rated value	400 A
	— at 500 V rated value	400 A
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• at 400 V rated value 150 A		
	-	150 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 	
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	— 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 	
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	— 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 400 V rated value 200 kW at 400 V rated value 200 kW at 230 V rated value 200 kW at 400 V rated value 200 kW at 690 V rated value 250 kW at 690 V rated valu	— at 440 V rated value	0.65 A
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• at 400 V rated value85 kW• at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 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	operating power for approx. 200000 operating cycles	200 KW
• at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 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 value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA		
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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 		
• 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		
• 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		
• up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a		
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	240 277 V
• at 60 Hz rated value	240 277 V
control supply voltage at DC	
• rated value	240 277 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	10 mm		
 for live parts 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm	0 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				
 at 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			
	0.5 2.5 mm ²			
finely stranded with core end processing				
type of connectable conductor cross-sections				
 for auxiliary contacts 	$2x (0.5 + 1.5 mm^2) 2x (0.7)$	$= 2 E mm^2 may 2y$	$(0.75 (1.20)^2)$	
— solid	2x (0.5 1.5 mm ²), 2x (0.75			
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²) 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)			
- 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 $2x (20 - 16) 2x (18 - 14) 1x 12$				
• at 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				
mirror contact according to IEC 60947-4-1	Yes			
 positively driven operation according to IEC 60947- 	No			
5-1				
B10 value with high demand rate according to SN 31920	1 000 000			
protection class IP on the front according to IEC	IP00; IP20 with box terminal	l/cover		
60529				
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover			
suitability for use				
 safety-related switching OFF 	Yes			
Certificates/ approvals				
			Functional	
General Product Approval		EMC	Safety/Safety of	
			Machinery	
Confirmation		~	Tuno Examination	
	יחר	kλ	<u>Type Examination</u> <u>Certificate</u>	
	101	<u></u>		
CSA UL	B11B	RCM		
Declaration of Conformity Test Certifica				
	ates	Marine / Shipping		
	ates	Marine / Shipping		

UK CA	UK CACE EG-Konf.Type Test Certific- ates/Test ReportSpecial Test Certific- 					
Marine / Shipping			other			
Image: Presented and the second se						
other Railway Miscellaneous Special Test Certific- ate						
Further information						
Information- and Downloadcenter (Catalogs, Brochures,) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system)						
	https://mail.industry.siemens.com/mail/en/en/Catalog/product?mlfb=3RT1075-6AU36					
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AU36</u> Service&Support (Manuals, Certificates, Characteristics, FAQs)						

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6AU36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AU36&objecttype=14&gridview=view1

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