# **SIEMENS**

## Data sheet

### 3RT1075-6AP36

CONTACTOR, 200KW/400V/AC-3 AC(50...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S12
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Insulation voltage	
rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	690 V
60947-1	
Protection class IP	
• on the front	IP00

• of the terminal	IP00				
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)					
<ul> <li>of contactor typical</li> </ul>	10 000 000				
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000				
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000				
Ambient conditions					
Ambient temperature					
• during operation	-25 +60 °C				
• during storage	-55 +80 °C				
Main circuit	2				
Number of poles for main current circuit Number of NO contacts for main contacts	3				
Operating voltage	3				
at AC-3 rated value maximum	1 000 V				
	1000 V				
• at AC-1 at 400 V					
	420 A				
— at ambient temperature 40 °C rated value	430 A				
• at AC-1					
— up to 690 V at ambient temperature 40 °C rated value	430 A				
— up to 690 V at ambient temperature 60 °C rated value	400 A				
— up to 1000 V at ambient temperature 40 °C rated value	200 A				
— up to 1000 V at ambient temperature 60 °C rated value	200 A				
• at AC-2 at 400 V rated value	400 A				
• 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				
Connectable conductor cross-section in main circuit at AC-1					

• at 60 °C minimum permissible	240 mm <sup>2</sup>
• at 40 °C minimum permissible	300 mm <sup>2</sup>
Operating current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	150 A
• at 690 V rated value	135 A
Operating current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	400 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
Operating current	
• 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
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A

— at 220 V rated value	400 A			
— at 440 V rated value	1.4 A			
— at 600 V rated value	0.75 A			
Operating power				
• at AC-1				
— at 230 V at 60 °C rated value	151 kW			
— at 400 V rated value	263 kW			
— at 400 V at 60 °C rated value	263 kW			
— at 690 V rated value	454 kW			
— at 690 V at 60 °C rated value	454 kW			
— at 1000 V at 60 °C rated value	329 kW			
• at AC-2 at 400 V rated value	200 kW			
● at AC-3				
— at 230 V rated value	132 kW			
— at 400 V rated value	200 kW			
— at 500 V rated value	250 kW			
— at 690 V rated value	400 kW			
— at 1000 V rated value	250 kW			
Operating power for approx. 200000 operating cycles				
at AC-4				
• at 400 V rated value	85 kW			
• at 690 V rated value	133 kW			
Thermal short-time current limited to 10 s	3 200 A			
Power loss [W] at AC-3 at 400 V for rated value of	35 W			
the operating current per conductor				
<ul> <li>No-load switching frequency</li> <li>at AC</li> </ul>	2 000 1/h			
	2 000 1/h			
at DC     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-4 maximum	130 1/h			
Control circuit/ Control				
Type of voltage of the control supply voltage	AC/DC			
Control supply voltage at AC	222 242 1/			
• at 50 Hz rated value	220 240 V			
at 60 Hz rated value	220 240 V			
Control supply voltage at DC	220 240 \/			
rated value	220 240 V			
Operating range factor control supply voltage rated value of magnet coil at AC				

0.8 1.1			
0.81.1			
0.8 1.1			
with varistor			
830 V·A			
0.9			
9.2 V·A			
0.9			
920 W			
10 W			
45 100 ms			
45 100 ms			
60 100 ms			
60 100 ms			
10 15 ms			
Standard A1 - A2			
2			
2			
10 A			
6 A			
3 A			
2 A			
1 A			
10 A			
6 A			
6 A			
3 A			
2 A			

• at 600 V rated value	0.15 A				
Operating 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 three-phase AC motor					
• at 480 V rated value	361 A				
• at 600 V rated value	382 A				
Yielded mechanical performance [hp]					
<ul> <li>for three-phase AC motor</li> </ul>					
— 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					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
<ul> <li>— with type of coordination 1 required</li> </ul>	Fuse gG: 630 A				
<ul> <li>— with type of assignment 2 required</li> </ul>	Fuse gG: 500 A				
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 10 A				
required					
nstallation/ mounting/ dimensions					
Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface				
Mounting type	screw fixing				
Side-by-side mounting	Yes				
Height	214 mm				
Width	160 mm				
Depth	225 mm				
Required spacing					
<ul> <li>for grounded parts</li> </ul>					
— at the side	10 mm				
Connections/Terminals					

Type of electrical con	nection						
<ul> <li>for main current</li> </ul>	rrent circuit			screw-type terminals			
• for auxiliary and control current circuit			screv	v-type terminals			
Type of connectable	conductor cross-sec	tions					
• at AWG conductors for main contacts			2/0	. 500 kcmil			
Type of connectable	Type of connectable conductor cross-sections						
<ul> <li>for auxiliary cor</li> </ul>	ntacts						
— solid				.5 1.5 mm²), 2x (	0.75 2.5 mm²), max	k. 2x (0.75 4 mm²)	
— single or m	— single or multi-stranded			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)			
— finely strar	nded with core end p	rocessing	2x (0	.5 1.5 mm²), 2x (	0.75 2.5 mm²)		
<ul> <li>at AWG conduct</li> </ul>	ctors for auxiliary cor	itacts	2x (2	0 16), 2x (18 1	4), 1x 12		
Safety related data							
Product function							
<ul> <li>Mirror contact a</li> </ul>	Mirror contact acc. to IEC 60947-4-1						
<ul> <li>positively driver</li> </ul>	n operation acc. to IE	C 60947-5-	No				
1							
Protection against electrical shock			finger-safe when touched vertically from front acc. to IEC 60529				
Certificates/approva	ls						
General Product	Approval				Functional Safety/Safety of Machinery	Declaration of Conformity	
	(SA) CSA			EHC	Type Examination Certificate	EG-Konf.	
Test Certificates				Marine / Shippir	ng		
Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>	Miscellaneo	DUS	ABS	RMRS	DINV DNV	
Marine / Shipping	other						
DNVGL.COM/AF	<u>Miscellaneous</u>	<u>Confirmati</u>	<u>on</u>	Environmental Confirmations			
Further information							

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

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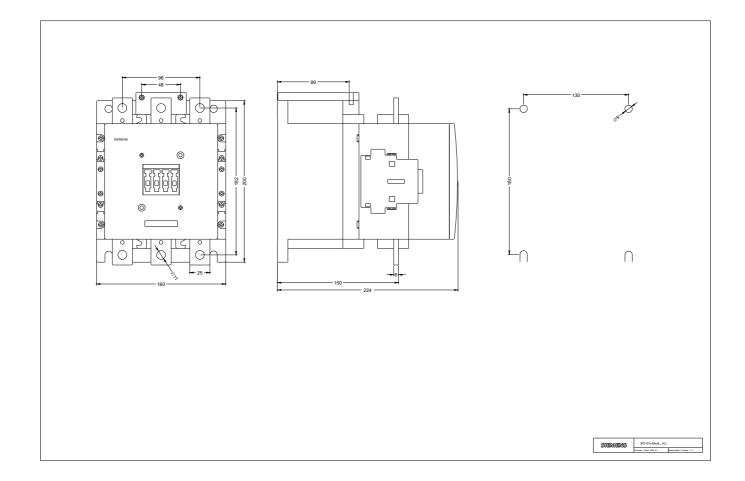
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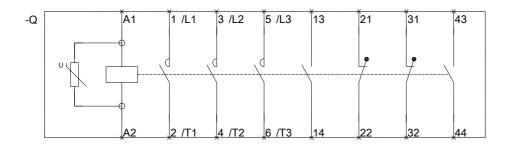
#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AP36

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