SIEMENS

Data sheet

3RT1055-1AB36



power contactor, AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 with box terminal

product designation Power contactor product type designation 3R11 consrat lechnical data S6 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 27 W • at AC in hot operating state per pole 9 W • without load current share typical 5.2 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 6 KV • of main circuit vated value 8 kV • of main circuit vated value 8 kV • of main circuit vated value 8 kV • of auxiliary circuit rated value 8 kV • of main circuit vated value 8 kV • of auxiliary circuit rated value 8 kV • at AC 8 kV • at AC 8 kV • at AC 8 kg / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 10 0000 000 • at AC 10 0000	product brand name	SIRIUS
General technical data size of contactor S6 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current + 27 W • at AC in hot operating state 27 W • of main circuit share typical 5.2 W Insultation voltage 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit rated value 8 kV • of main circuit rated value 6 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 690 V shock resistance at rectangular impulse 8.5g / 5 ms, 4.2g / 10 ms • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 13.4g / 5 ms, 6.5g / 10 ms • at AC 10.000 000 • at DC 10.000 000 • of the contactor with added descrimically optimized auxiliary switch block typical 10 000 000 • of the contactor with added descrimically optimized auxiliary switch block typical 10 000 000 • of the contactor with added duxuliary switch block typical 0500/1/2012 Ambient emperature 0500/1/	product designation	Power contactor
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	 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 maximum	95 %
Aain 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	105.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	185 A
• at AC-1	405.4
— up to 690 V at ambient temperature 40 °C rated value	185 A
— up to 690 V at ambient temperature 60 °C	160 A
rated value	
— up to 1000 V at ambient temperature 40 °C	90 A
rated value	
— up to 1000 V at ambient temperature 60 °C	90 A
rated value	
• at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
	150 A
— at 690 V rated value	
— at 1000 V rated value	65 A
 at AC-4 at 400 V rated value 	132 A
 at AC-5a up to 690 V rated value 	162 A
 at AC-5b up to 400 V rated value 	124 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated 	150 A
value	
 up to 400 V for current peak value n=20 rated 	150 A
value	450.4
 — up to 500 V for current peak value n=20 rated value 	150 A
— up to 690 V for current peak value n=20 rated	150 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	
 up to 400 V for current peak value n=30 rated 	105 A
value	
 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	05.4
 — up to 1000 V for current peak value n=30 rated value 	65 A
minimum cross-section in main circuit at maximum AC-1	95 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	68 A
at 690 V rated value	57 A
operational current	

— 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	0.57 A
- at 24 V rated value	160 A
— at 110 V rated value	160 A
	160 A
— at 220 V rated value — at 440 V rated value	1.4 A
at 600 V rated value	0.75 A
operating power	
• at AC-3	45 1344
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	38 kW
• at 690 V rated value	55 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 	170 000 VA
 up to 1000 V for current peak value n=20 rated value 	110 000 VA
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			
 limited to 1 s switching at zero current maximum 	2 727 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	1 831 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	1 300 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	850 A; Use minimum cross-section acc. to AC-1 rated value		
Imited to 60 s switching at zero current maximum	703 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	0.000.44		
• at AC	2 000 1/h		
• at DC	2 000 1/h		
operating frequency	000 4 11-		
• at AC-1 maximum	800 1/h		
• at AC-2 maximum	300 1/h		
 at AC-3 maximum at AC-3e maximum 	750 1/h 750 1/h		
 at AC-3e maximum 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	23 26 V		
at 50 Hz rated value at 60 Hz rated value	23 26 V 23 26 V		
control supply voltage at DC	23 20 V		
rated value	23 26 V		
operating range factor control supply voltage rated	2020 V		
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	200.1/4		
● at 50 Hz ● at 60 Hz	300 VA 300 VA		
	500 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 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	156 A		
• at 600 V rated value	144 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 230 V rated value	30 hp		
 for 3-phase AC motor 			
— at 200/208 V rated value	50 hp		
— at 220/230 V rated value	60 hp		
— at 460/480 V rated value	125 hp		
— at 575/600 V rated value	150 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 Å (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	172 mm		
width	120 mm		
depth	170 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 	box terminal				
 for auxiliary and control circuit 	screw-type terminals				
 at contactor for auxiliary contacts 	Screw-type terminals				
 of magnet coil 	Screw-type terminals				
type of connectable conductor cross-sections					
for main contacts					
— stranded	max. 1x 95, 1x 120 mm²				
— solid or stranded	max. 1x 50, 1x 70 mm²				
 — finely stranded with core end processing 	max. 1x 95, 1x 120 mm ²				
- finely stranded without core end processing	max. 1x 95, 1x 120 mm²				
at AWG cables for main contacts	2x 1/0				
connectable conductor cross-section for main contacts	-				
stranded	16 70 mm²				
 finely stranded with core end processing 	16 70 mm²				
 finely stranded without core end processing 	16 70 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 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)				
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)				
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 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- 5-1 	No				
B10 value with high demand rate according to SN 31920	1 000 000				
protection class IP on the front according to IEC	IP20				
60529					
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front				
suitability for use					
 safety-related switching OFF 	Yes				
Certificates/ approvals					
General Product Approval					

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EMC	Functional Safety/Safety of Machinery	Declaration of Cor	formity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					other
ABS	Lloyd's Register urs	PRS	RMRS		<u>Confirmation</u>
other			Railway		
<u>Miscellaneous</u>	<u>Miscellaneous</u>	Confirmation	<u>Special Test Certific-</u> <u>ate</u>		

Further information

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=3RT1055-1AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-1AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-1AB36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-1AB36&lang=en</u>

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-1AB36/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-1AB36&objecttype=14&gridview=view1

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