SIEMENS

Data sheet

3RT1275-6AM36



vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 200-220 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional

size of contactor S12 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 63 W • at AC in hot operating state 63 W • at AC in hot operating state per pole 21 W • without load current share typical 10 W insulation voltage of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit rated value 64 kV e of auxiliary circuit rated value 64 kV of auxiliary circuit rated value 64 kV e of auxiliary circuit rated value 64 kV maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 850 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 DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms • of ontactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor twith added auxiliary switch block typical <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
General technical data size of contactor S12 product extension ifunction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 63 W • at AC in hot operating state per pole 21 W • 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 with degree of pollution 3 rated value 1000 V • of main circuit rated value 8 kV • of main circuit rated value 6 kV e of main circuit rated value 8 kV • of maxiliary circuit rated value 6 kV e of maxinum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 500 V shock resistance at rectangular impulse 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 AC 10,000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0500 / 02 reference code according to IEC 81346-2 <td>product designation</td> <td>Vacuum contactor</td>	product designation	Vacuum contactor
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shock resistance with sine pulse is go thin, high rout • 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) 10 000 000 • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 000 000 • of the contactor with added auxiliary switch block typical 0000 000 • of the contactor typical 0000 000 freference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	• at AC	8,5g / 5 ms, 4,2g / 10 ms
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Substance Prohibitance (Date) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum ambient temperature 2 000 m • during operation -25 +60 °C		10 000 000
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	95 %
maximum	
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-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	610 A
 at AC-1 — up to 690 V at ambient temperature 40 °C 	610 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	550 A
— up to 1000 V at ambient temperature 40 °C rated value	610 A
— up to 1000 V at ambient temperature 60 °C rated value	550 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	400 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	400 A
 at AC-4 at 400 V rated value 	350 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated value 	400 A
— up to 400 V for current peak value n=20 rated value	400 A
— up to 500 V for current peak value n=20 rated value	400 A
— up to 690 V for current peak value n=20 rated value	400 A
— up to 1000 V for current peak value n=20 rated value	400 A
• at AC-6a	200 4
— up to 230 V for current peak value n=30 rated value	293 A
— up to 400 V for current peak value n=30 rated value	293 A
— up to 500 V for current peak value n=30 rated value	293 A
— up to 690 V for current peak value n=30 rated value	293 A
— up to 1000 V for current peak value n=30 rated value	293 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	370 mm ²
cycles at AC-4	
at 400 V rated value	175 A
at 690 V rated value	175 A
operating power	
• 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	560 kW
• at AC-3e	
— 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	560 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	98 kW
 at 690 V rated value 	172 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	150 000 kVA
• up to 400 V for current peak value n=20 rated value	270 000 VA
• up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
• up to 1000 V for current peak value n=20 rated	690 000 VA
value	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	110 000 VA
• up to 400 V for current peak value n=30 rated value	200 000 VA
• up to 500 V for current peak value n=30 rated value	250 000 VA
• up to 690 V for current peak value n=30 rated value	350 000 VA
• up to 1000 V for current peak value n=30 rated	500 000 VA
value	500 000 VA
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	250 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	000 000 \/
• at 50 Hz rated value	200 220 V
at 60 Hz rated value	200 220 V
control supply voltage at DC	
rated value	200 220 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	
apparent holding power of magnet coil at AC • at 50 Hz	9.2 VA
	9.2 VA 9.2 VA

inductive power factor with the holding power of the coil				
	0.0			
• 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	2			
instantaneous contact				
number of NO contacts for auxiliary contacts	2			
instantaneous contact	10.4			
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				
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 800 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA)			
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)			
required	90. 10 / (000 V, 1 10)			
-				

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)
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2

 suitability for use safety-related s 		Yes			
• salely-related s ertificates/ approval		Yes	6		
General Product Ap					EMC
(S) S	<u>Confirmation</u>			EHC	RCM
Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping			other		
Lloyd's Register uis	PRS	RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway Special Test Certific- ate					
	wnloadcenter (Catalog	s, Brochures,…)			
Cax online generato	e ordering system) iemens.com/mall/en/en/(275-6AM36	
Service&Support (M https://support.industr mage database (pro http://www.automation Characteristic: Tripp	lanuals, Certificates, Cl <u>v.siemens.com/cs/ww/el</u> oduct images, 2D dimenn. <u>n.siemens.com/bilddb/ca</u> <u>bing characteristics, l²t, <u>ry.siemens.com/cs/ww/el</u></u>	haracteristics, FAQ n/ps/3RT1275-6AM3 nsion drawings, 3D Ix_de.aspx?mlfb=3R , Let-through currer	s,) <u>6</u> models, device circuit <u>T1275-6AM36⟨=en</u> nt	diagrams, EPLAN mad	cros,)
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