SIEMENS

Data sheet

3RT1276-6AP36



vacuum contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional

product designation Vacuum contactor product type designation ST12 concrait technical data St2 product extension St2 • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current St2 • at AC in hot operating state per pole 32 W • without load current share typical 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit rated value 8 kV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • 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	product brand name	SIRIUS
General technical data S12 groduct extension i function module for communication No auxiliary switch Yes power loss [W] for rated value of the current at AC in hot operating state per pole 32 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 auxiliary circuit with degree of pollution 3 rated value 1000 V of dauxiliary circuit with degree of pollution 3 rated value 6 KV surge voltage resistance 6 KV of dauxiliary circuit rated value 6 KV e of auxiliary circuit rated value 6 KV shock resistance at rectangular impulse 8.5g / 5 ms, 4.2g / 10 ms e at AC 8.5g / 5 ms, 4.2g / 10 ms e at AC 13.4g / 5 ms, 6.5g / 10 ms e at AC 13.4g / 5 ms, 6.5g / 10 ms e at DC 10.000 000 e at DC 10.000 000 e of the contactor with added electronically optimized auxiliary switch block typical 10.000 000 e of the contactor with added auxiliary switch block typical 10.000 000 e of the contactor with added auxiliary switch block typical 10.000 000 e of the contactor with added auxiliary switch block typical 0500/12012 Amb	product designation	Vacuum contactor
size of contactor S12 product extension No • d unction module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 96 W • at AC in hot operating state per pole 32 W • without load current share typical 10 W insulation voltage 1 00 V • of main circuit with degree of pollution 3 rated value 500 V • auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main contacts according to EN 60947-1 8 kV shock resistance at rectangular impulse 4 AC • at AC 13,4g / 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 10,00000 • 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 10,000,000 • of the contactor with added 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 10,000,000 • of the	product type designation	3RT12
product extension No • function module for communication Yes • auxiliary switch Yes • auxiliary switch 96 W • at AC in hot operating state 96 W • at AC in hot operating state per pole 32 W • without load current share typical 10 W insulation voltage 100 V • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 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 10 000 000 • at AC 10 000 000 <tr< th=""><th>General technical data</th><th></th></tr<>	General technical data	
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• at AC in hot operating state per pole 96 W • at AC in hot operating state per pole 32 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 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of main contacts according to BK 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 DC 13.4g / 5 ms, 6.5g / 10 ms • at DC 10 000 000 • at DC 13.4g / 5 ms, 6.5g / 10 ms • at DC 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added elauxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 0s/0t/12012 Ambient conditions 2000 m In	 auxiliary switch 	Yes
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at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• mechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor block typical05/01/2012• of the contactor block typical05/01/2012• of the contactor block typical05/01/2012• further conditions2 000 m• ambient conditions2 000 m• during operation-25 +60 °C	shock resistance at rectangular impulse	
shock resistance with sine pulse istight of my fught of	• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor block typical0000 000• of the contactor block typical05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	● at DC	8,5g / 5 ms, 4,2g / 10 ms
• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• feference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	shock resistance with sine pulse	
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typical Image: constraint of the second se		5 000 000
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 rated value 	610 A
— 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	500 A
— at 500 V rated value	500 A
— at 690 V rated value	500 A
— at 1000 V rated value	500 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	500 A
— at 1000 V rated value	500 A
• at AC-4 at 400 V rated value	430 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	439 A
— up to 400 V for current peak value n=20 rated value	439 A 439 A
 — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated 	439 A 439 A
- up to 000 V for current peak value n=20 rated - up to 1000 V for current peak value n=20 rated	439 A
• at AC-6a	
— 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 up to 1000 V for current peak value n=30 rated 	293 A 293 A
— up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	293 A
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	215 A
• at 690 V rated value	215 A
operating power	
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW

— at 500 V rated value	355 kW
— at 690 V rated value	500 kW
— at 1000 V rated value	710 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	355 kW
— at 690 V rated value	500 kW
— at 1000 V rated value	710 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	122 kW
at 690 V rated value	212 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	170 000 kVA
 up to 400 V for current peak value n=20 rated value 	300 000 VA
 up to 500 V for current peak value n=20 rated value 	380 000 VA
 up to 690 V for current peak value n=20 rated value 	520 000 VA
 up to 1000 V for current peak value n=20 rated value 	760 000 VA
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 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	
• at 50 Hz rated value	220 240 V
 at 60 Hz rated value 	220 240 V
control supply voltage at DC	
• rated value	220 240 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
	0.0 1.1
design of the surge suppressor	with varistor
design of the surge suppressor apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC	with varistor
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz	with varistor 830 VA
apparent pick-up power of magnet coil at AC • at 50 Hz	with varistor 830 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil	with varistor 830 VA 830 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	with varistor 830 VA 830 VA 0.9
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	with varistor 830 VA 830 VA 0.9
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC	with varistor 830 VA 830 VA 0.9 0.9

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	2			
instantaneous contact	-			
number of NO contacts for auxiliary contacts	2			
instantaneous contact				
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	477 A			
• at 600 V rated value	472 A			
yielded mechanical performance [hp]				
for 3-phase AC motor				
— at 200/208 V rated value	150 hp			
— at 220/230 V rated value	200 hp			
— at 460/480 V rated value	400 hp			
— at 575/600 V rated value	500 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: 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 required 	gG: 10 A (500 V, 1 kA)			

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General Product Ap					EMC
	<u>Confirmation</u>			EHC	RCM
Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping
Type Examination Certificate	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping			other		
Hovd's Register us	PRS	RMRS R	<u>Confirmation</u>	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway pecial Test Certific- ate					
ttps://www.siemens. ndustry Mall (Online ttps://mall.industry.s cax online generato ttp://support.automa cervice&Support (M	e ordering system) iemens.com/mall/en/en/ or tion.siemens.com/WW/C lanuals, Certificates, C ry.siemens.com/cs/ww/e	Catalog/product?mlfb AXorder/default.asp haracteristics, FAQ n/ps/3RT1276-6AP36	<u>x?lang=en&mlfb=3RT12</u> s,) <u>6</u>	<u>76-6AP36</u> diagrams, EPLAN ma	cros)

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