SIEMENS

Data sheet

3RT1266-6AP36



vacuum contactor, AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC operation 220-240 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional

product designation Vacuum contactor product type designation S112 concrat technical data S10 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 42 W • at AC in hot operating state per pole 14 W • without load current share typical 22 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit rated value 8 kV • of main circuit rated value 8 kV • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit ated value 8 kV • at AC 8.5g / 5 ms, 4.2g / 10 ms • at AC 10.6g / 5 ms, 6.5g / 10 ms • at AC 10.4g / 5 ms, 6.5g / 10 ms • at AC<	product brand name	SIRIUS
size of contactor S10 groduct extension S10 • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 42 W • at AC in hot operating state 42 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 maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 680 V stock 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 DC 10,000 000 • at AC 10,000 000 • at DC 10,000 000 • at DC 10,000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10000 000 • of the contactor with added electronically optimized auxiliary switch block typical 1000000 • of the contactor with added electronically optimized auxiliary switch block typical 00000	product designation	Vacuum contactor
size of contactor S10 product extension No • auxiliary switch Yes power loss [W] for rated value of the current 42 W • at AC in hot operating state 42 W • at AC in hot operating state prole 14 W • of main circuit with degree of pollution 3 rated value 8.2 W • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit method value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 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 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch	product type designation	3RT12
product extension No • function module for communication Yes • auxiliary switch Yes • at AC in hot operating state 42 W • at AC in hot operating state per pole 14 W • without load current share typical 8.2 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 1 000 V • 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 main circuit rated value 8 kV • of main contacts according to EN 60947-1 850 / 5 ms, 4.2g / 10 ms • 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 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 electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 <	General technical data	
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -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 	330 A
rated value ● at AC-1	
up to 690 V at ambient temperature 40 °C	330 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	300 A
 up to 1000 V at ambient temperature 40 °C rated value 	330 A
— up to 1000 V at ambient temperature 60 °C rated value	300 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
● at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
 at AC-4 at 400 V rated value 	280 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	300 A
— up to 400 V for current peak value n=20 rated value	300 A
— up to 500 V for current peak value n=20 rated value	300 A
— up to 690 V for current peak value n=20 rated value	300 A
 — up to 1000 V for current peak value n=20 rated value at AC-6a 	300 A
 up to 230 V for current peak value n=30 rated 	209 A
value	
 — up to 400 V for current peak value n=30 rated value 	209 A
 — up to 500 V for current peak value n=30 rated value 	209 A
— up to 690 V for current peak value n=30 rated value	209 A
up to 1000 V for current peak value n=30 rated value	209 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	140 A
• at 690 V rated value	140 A
operating power	
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW

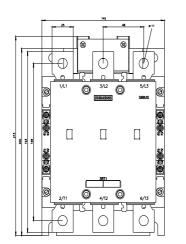
— at 500 V rated value	200 kW	
— at 690 V rated value	250 kW	
— at 1000 V rated value	400 kW	
● at AC-3e		
— at 230 V rated value	90 kW	
— at 400 V rated value	160 kW	
— at 500 V rated value	200 kW	
— at 690 V rated value	250 kW	
— at 1000 V rated value	400 kW	
operating power for approx. 200000 operating cycles at AC-4		
 at 400 V rated value 	79 kW	
at 690 V rated value	138 kW	
operating apparent power at AC-6a		
 up to 230 V for current peak value n=20 rated value 	120 000 kVA	
 up to 400 V for current peak value n=20 rated value 	200 000 VA	
 up to 500 V for current peak value n=20 rated value 	260 000 VA	
 up to 690 V for current peak value n=20 rated value 	350 000 VA	
 up to 1000 V for current peak value n=20 rated value 	520 000 VA	
operating apparent power at AC-6a		
 up to 230 V for current peak value n=30 rated value 	80 000 VA	
 up to 400 V for current peak value n=30 rated value 	140 000 VA	
 up to 500 V for current peak value n=30 rated value 	180 000 VA	
 up to 690 V for current peak value n=30 rated value 	250 000 VA	
 up to 1000 V for current peak value n=30 rated value 	360 000 VA	
no-load switching frequency		
• at AC	2 000 1/h	
• at DC	2 000 1/h	
operating frequency		
• at AC-1 maximum	750 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	
design of the surge suppressor	with varistor	
apparent pick-up power of magnet coil at AC		
• at 50 Hz	590 VA	
• at 60 Hz	590 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		
	6.1 VA	
• at 60 Hz	6.1 VA 6.1 VA	

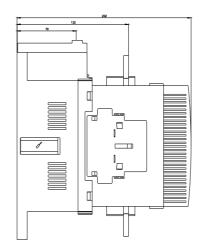
inductive power factor with the holding power of the	_		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.9		
• at 60 Hz	0.9		
closing power of magnet coil at DC	700 W		
holding power of magnet coil at DC	8.2 W		
closing delay			
• at AC	30 95 ms		
• at DC	30 95 ms		
opening delay			
• at AC	40 80 ms		
• at DC	40 80 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 	302 A		
at 600 V rated value	289 A		
yielded mechanical performance [hp]			
 for 3-phase AC motor 			
— at 200/208 V rated value	100 hp		
— at 220/230 V rated value	125 hp		
— at 460/480 V rated value	250 hp		
at 575/600 V rated value	300 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: 500 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 suviliant switch	V, 50 kA) gG: 10 A (500 V, 1 kA)		
 for short-circuit protection of the auxiliary switch required 	90. 10 A (000 V, 1 KA)		

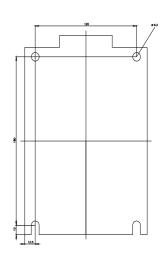
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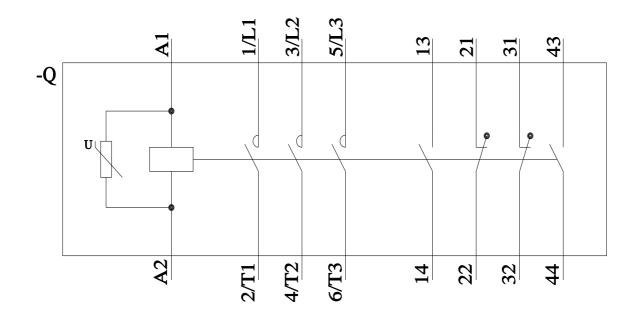
suitability for use • safety-related s Certificates/ approva	•	Yes			
General Product A					
	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Machinery	Declaration of Confe	ormity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate
Marine / Shipping					other
ABS	Lloyds Register uis	PRS	RMRS RMRS	DNV-GL	<u>Confirmation</u>
other		Railway			
<u>Miscellaneous</u>	<u>Confirmation</u>	Special Test Certific- ate			
Further information					
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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1266-6AP36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1266-6AP36&objecttype=14&gridview=view1









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8/19/2022