SIEMENS

Data sheet

3RT1265-6AF36

Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional



Figure similar

Product brand name	SIRIUS		
Product designation	Vacuum contactor		
Product type designation	3RT12		
General technical data			
Size of contactor	S10		
Product extension			
 function module for communication 	No		
Auxiliary switch	Yes		
Surge voltage resistance			
 of main circuit rated value 	8 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation			
 between coil and main contacts acc. to EN 	690 V		
60947-1			
Protection class IP			
• on the front	IP00; IP20 on the front with cover / box terminal		
 of the terminal 	IP00		
• on the front			

Charle projetance at restance when incrudes				
Shock resistance at rectangular impulse	8 En / E ma 4 2n / 10 ma			
• 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)				
 of contactor typical 	10 000 000			
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000			
 of the contactor with added auxiliary switch block typical 	10 000 000			
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	к			
Reference code acc. to DIN EN 81346-2	Q			
Ambient conditions				
Installation altitude at height above sea level				
• maximum	2 000 m			
Ambient temperature				
 during operation 	-25 +60 °C			
• during storage	-55 +80 °C			
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			
Operating current				
• at AC-1 at 400 V				
— at ambient temperature 40 °C rated value	330 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C rated value	330 A			
— up to 690 V at ambient temperature 60 °C rated value	300 A			
— up to 1000 V at ambient temperature 40 °C	330 A			
rated value				
rated value — up to 1000 V at ambient temperature 60 °C rated value	300 A			
— up to 1000 V at ambient temperature 60 °C	300 A 265 A			
— up to 1000 V at ambient temperature 60 °C rated value				
 up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value at AC-3 				
 up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value 	265 A			

at 690 V rated value265 A at 1000 V rated value265 A• at AC-4 at 400 V rated value230 AConnectable conductor cross-section in main circuit at AC-1185 mm²• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 400 V rated value115 A• at 600 V rated value81 A	
 at AC-4 at 400 V rated value 230 A Connectable conductor cross-section in main circuit at AC-1 at 60 °C minimum permissible at 40 °C minimum permissible 185 mm² Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 115 A 	
Connectable conductor cross-section in main circuit at AC-1 185 mm² • at 60 °C minimum permissible 185 mm² • at 40 °C minimum permissible 185 mm² Operating current for approx. 200000 operating cycles at AC-4 115 A	
at AC-1185 mm²• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²Operating current for approx. 200000 operating cycles at AC-4185 mm²• at 400 V rated value115 A	
• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²Operating current for approx. 200000 operating cycles at AC-4115 A	
• at 40 °C minimum permissible 185 mm ² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 115 A	
Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 115 A	
e at 400 V rated value 115 A	
at 690 V rated value 81 A	
Operating power	
● at AC-1	
— at 230 V at 60 °C rated value 113 kW	
— at 400 V rated value 197 kW	
— at 400 V at 60 °C rated value 300 kW	
— at 690 V rated value 340 kW	
— at 690 V at 60 °C rated value 340 kW	
— at 1000 V at 60 °C rated value 492 kW	
• at AC-2 at 400 V rated value 132 kW	
• at AC-3	
— at 230 V rated value 75 kW	
— at 400 V rated value 132 kW	
— at 500 V rated value 160 kW	
— at 690 V rated value 250 kW	
— at 1000 V rated value 355 kW	
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 65 kW	
• at 690 V rated value 112 kW	
Thermal short-time current limited to 10 s 2 120 A	
Power loss [W] at AC-3 at 400 V for rated value of 12 W the operating current per conductor	
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-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	110 127 V
• at 60 Hz rated value	110 127 V
Control supply voltage at DC	
• rated value	110 127 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 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
• at 50 Hz	6.1 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
Closing power of magnet coil at DC	700 W
Holding power of magnet coil at DC	8.2 W
Closing delay	0.2 W
• 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	
• instantaneous contact	2
Number of NO contacts for auxiliary contacts	
 instantaneous contact 	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A

1 faulty switching per 100 million (17 V, 1 mA)	
0.1 A	
0.3 A	
0.9 A	
1 A	
2 A	
2 A	
10 A	
0.15 A	
1 A	
2 A	
3 A	
6 A	
6 A	
10 A	
1 A	
2 A	

OL/OSA rallings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	240 A
• at 600 V rated value	242 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	75 hp
— at 220/230 V rated value	100 hp
— at 460/480 V rated value	200 hp
— at 575/600 V rated value	250 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

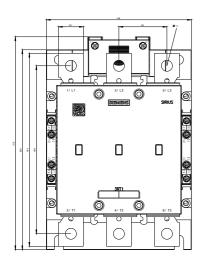
Short-circuit protection Design of the fuse link gG: 500 A (690 V, 100 kA) • for short-circuit protection of the main circuit gG: 500 A (690 V, 100 kA) - with type of coordination 1 required gG: 500 A (690 V, 100 kA) - with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)

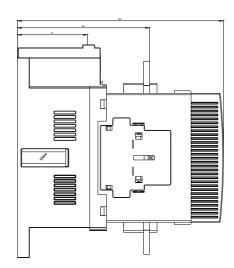
Installation/ mounting/ dimensions

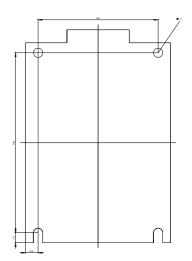
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be		
	tilted forward and backward by +/- 22.5° on vertical mounting		
	surface; standing, on horizontal mounting surface		
Mounting type	screw fixing		
 Side-by-side mounting 	Yes		
Height	210 mm		
Width	145 mm		
Depth	206 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 	Connection bar		
 for auxiliary and control current circuit 	screw-type terminals		
Type of connectable conductor cross-sections			
• at AWG conductors for main contacts	2/0 500 kcmil		
Connectable conductor cross-section for main contacts			
• stranded	70 240 mm²		
Connectable conductor cross-section for auxiliary contacts			
 single or multi-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 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

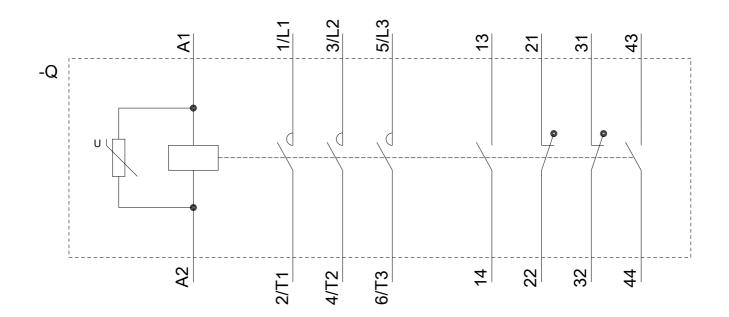
 at AWG conductors for auxiliary con 	tacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable cond section	luctor cross			
 for auxiliary contacts 		18 14		
Safety related data				
Product function				
• Mirror contact acc. to IEC 60947-4-1	l	Yes		
 positively driven operation acc. to IE 1 	C 60947-5-	No		
Protection against electrical shock		finger-safe when touched	d vertically from front	acc. to IEC 60529
Certificates/approvals				
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
		EHC	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.
Test Certificates	Marine / S	hipping		other
Special Test Certi- Type Test Certific- ficate ates/Test Report	ABS	RMRS	DNVGLCOM/AF	<u>Miscellaneous</u>
other				
Confirmation				
Further information				
Information- and Downloadcenter (Catalogs, Brochures,)				
http://www.siemens.com/industrial-controls/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1265-6AF36				
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AF36				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AF36				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AF36⟨=en				

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AF36/char









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