SIEMENS

Data sheet

3RT1264-6AF36

Vacuum contactor, AC-3 225 A, 110 kW / 400 V 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

Shock resistance at rectangular impulse	
• 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
● at AC-1 at 400 V	
 — at ambient temperature 40 °C rated value at AC-1 	330 A
— 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 rated value	330 A
— up to 1000 V at ambient temperature 60 $^\circ\mathrm{C}$ rated value	300 A
rated value	300 A
rated value ● at AC-2 at 400 V rated value	300 A

— at 690 V rated value	225 A
— at 1000 V rated value	225 A
 at AC-4 at 400 V rated value 	195 A
Connectable conductor cross-section in main circuit	
at AC-1	
• at 60 °C minimum permissible	120 mm ²
• at 40 °C minimum permissible	150 mm ²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	97 A
• at 690 V rated value	68 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	110 kW
• at AC-3	
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	320 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	55 kW
• at 690 V rated value	94 kW
Thermal short-time current limited to 10 s	1 800 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	9 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 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	30 95 ms
• 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

2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
2 A 1 A 0.9 A
2 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/OOA ralings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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) - 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 fuse gG: 10 A

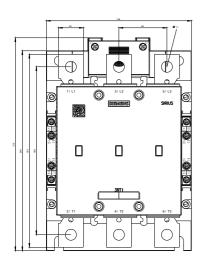
Installation/ mounting/ dimensions

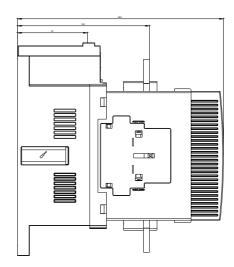
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface; standing, on horizontal mounting surface
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	210 mm
Width	145 mm
Depth	206 mm
Required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	19 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 	screw-type terminals
 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)

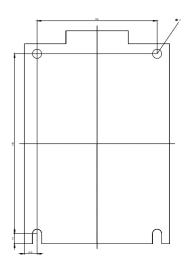
 at AWG conductors for auxiliary c 	contacts	2x (20 16), 2x (18 14	4), 1x 12	
AWG number as coded connectable co section	onductor cross			
 for auxiliary contacts 		18 14		
Safety related data				
Product function				
 Mirror contact acc. to IEC 60947-4 	4-1	Yes		
 positively driven operation acc. to 1 	IEC 60947-5-	No		
Protection against electrical shock		finger-safe when touched	l vertically from front	acc. to IEC 60529
Certificates/approvals				
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
		EHC	Type Examination Certificate	EG-Konf.
Test Certificates	Marine / S	hipping		other
Test Certificates Type Test Certific- ates/Test Report Special Test Certi- ficate ficate ficate		shipping	MVGLCOM/AF	other Miscellaneous
Type Test Certific- Special Test Certi-	ALCAN BURE TO BURE TO SHIPPHU		DNVGL	
Type Test Certific- ates/Test Report Special Test Certi- ficate	ALCAN BURE TO BURE TO SHIPPHU		DNV.GL	
Type Test Certific- ates/Test Report Special Test Certi- ficate other	ALCAN BURE TO BURE TO SHIPPHU		DNV.GL	
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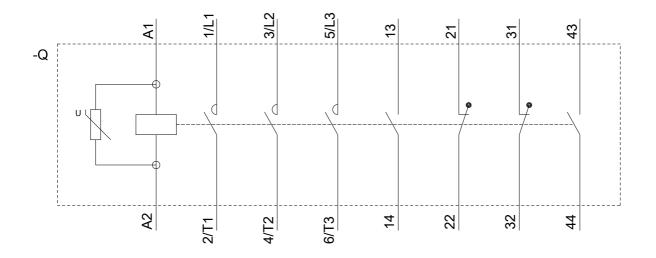
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1264-6AF36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AF36/char









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