SIEMENS

Data sheet

3RT1264-6AB36

Vacuum contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 23-26 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	

Charle register on at regtor subscripts		
Shock resistance at rectangular impulse	0.5 x / 5 x x x 4.0 x / 40 x x	
• 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	330 A	
rated value		
rated value — up to 690 V at ambient temperature 60 °C rated value	300 A	
— up to 690 V at ambient temperature 60 °C	300 A 330 A	
 — up to 690 V at ambient temperature 60 °C rated value — up to 1000 V at ambient temperature 40 °C 		
 up to 690 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C 	330 A	
 up to 690 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value 	330 A 300 A	
 up to 690 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 40 °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 	330 A 300 A	
 up to 690 V at ambient temperature 60 °C rated value up to 1000 V at ambient temperature 40 °C rated value up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value 	330 A 300 A 225 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	185 mm ²
• at 40 °C minimum permissible	185 mm²
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	55 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	315 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	23 26 V
• at 60 Hz rated value	23 26 V
Control supply voltage at DC	
• rated value	23 26 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	
• 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

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 600 V rated value	0.1 A
 at 220 V rated value 	0.3 A
• at 125 V rated value	0.9 A
• at 110 V rated value	1 A
• at 60 V rated value	2 A
• at 48 V rated value	2 A
• at 24 V rated value	10 A
perating current at DC-13	
• at 600 V rated value	0.15 A
• at 220 V rated value	1 A
• at 125 V rated value	2 A
• at 110 V rated value	3 A
• at 60 V rated value	6 A
• at 48 V rated value	6 A
• at 24 V rated value	10 A
perating current at DC-12	
• at 690 V rated value	1 A
• at 500 V rated value	2 A
 at 400 V rated value 	3 A

OL/OO/A ratings	
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

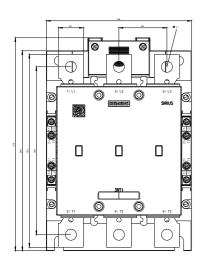
Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 500 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
 for short-circuit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

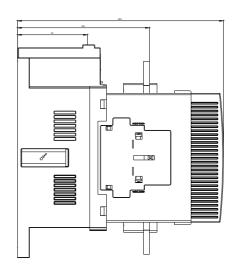
Installation/ mounting/ dimensions

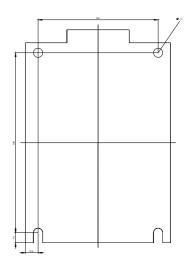
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be	
	tilted forward and backward by +/- 22.5° on vertical mounting	
	surface; standing, on horizontal mounting surface	
Mounting type	screw fixing	
 Side-by-side mounting 	Yes	
Height	210 mm	
Width	145 mm	
Depth	206 mm	
Required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

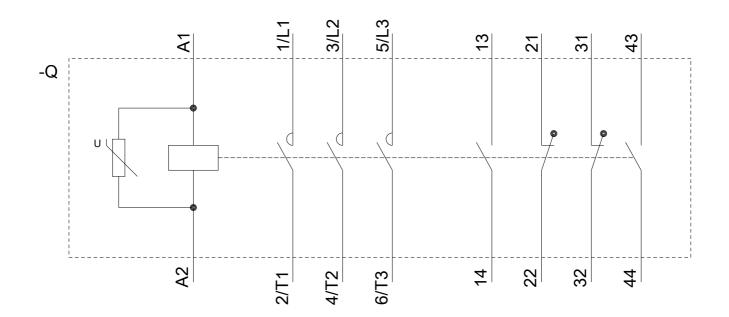
2x (20 16), 2x (18 1	2x (20 16), 2x (18 14), 1x 12	
SS		
18 14		
Yes		
-5- No		
finger-safe when touched	finger-safe when touched vertically from front acc. to IEC 60529	
	Functional Safety/Safety of Machinery	Declaration of Conformity
) EHC	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.
e / Shipping		other
RMRS	DNVGL.COM/AF	<u>Miscellaneous</u>
nures,)		
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	sss 18 14 Yes No finger-safe when touched b ERE e / Shipping	18 14 18 14 Yes No finger-safe when touched vertically from front Functional Safety/Safety of Machinery Type Examination Certificate I Shipping I Shipping

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AB36/char









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