SIEMENS

Data sheet

3RT1264-6AP36-0KA1

Vacuum contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC, Auxiliary contacts 2 NO + 2 NC, 3-pole, Size S10, busbar connections Drive: conventional Customer-specific device



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
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	278 A
— up to 400 V for current peak value n=20 rated value	278 A
— up to 500 V for current peak value n=20 rated value	278 A
— up to 690 V for current peak value n=20 rated value	278 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	185 A
— up to 400 V for current peak value n=30 rated value	185 A
— up to 500 V for current peak value n=30 rated value	185 A
— up to 690 V for current peak value n=30 rated value	185 A
Minimum cross-section in main circuit	
Arman cross-section in main circuit at maximum AC-1 rated value	185 mm²
• at maximum AC-1 rated value Operating current for approx. 200000 operating	185 mm²
• at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4	
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 	97 A
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 	
at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power	97 A
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 	97 A 68 A
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value 	97 A 68 A 113 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value 	97 A 68 A 113 kW 197 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value 	97 A 68 A 113 kW 197 kW 300 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW
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 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW 492 kW 110 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 690 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW 492 kW 110 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW 492 kW 110 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 690 V rated value at AC-3 at 230 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW 492 kW 110 kW
 at maximum AC-1 rated value Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V rated value at 690 V rated value at 230 V rated value at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value 	97 A 68 A 113 kW 197 kW 300 kW 340 kW 340 kW 492 kW 110 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
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	10/20
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	220 240 V
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
Control supply voltage at DC	220 240 V
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 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
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating 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
Operating 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 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 	
	60 hp
— at 200/208 V rated value	

— 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	-C. 500 A (COO)/ 400 HA)
— 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 2/0 500 kcmil Connectable conductor cross-section for main contacts 2/0 500 kcmil Connectable conductor cross-section for main contacts 70 240 mm² Connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • 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 0.5 4 mm² • for auxiliary contacts 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 - single or multi-stranded 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 - 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), max. 2x (0.75 4 mm² • for auxiliary contacts 18 14 AWG number as coded connectable conductor cross 2x (20 16), 2x (18 14), 1x 12 Product function • finger-safe when touched vertically from front acc. to IEC 60529	 at contactor for auxiliary contacts 	Screw-type terminals
• at AWG conductors for main contacts 2/0 500 kcmil Connectable conductor cross-section for main contacts 70 240 mm² • stranded 70 240 mm² Connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • single or multi-stranded 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • or auxiliary contacts 0.5 4 mm² - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm² - 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 - single or multi-stranded 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 - single or multi-stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm² - solid 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) - finely stranded with core end processing 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross 18 14	 of magnet coil 	Screw-type terminals
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	Type of connectable conductor cross-sections	
	 for auxiliary contacts 	
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General Product Approvals EMC Functional Safety/Safety of Machinery Test Certific- ates other Type Examination Special Test Certi- Confirmation Confirmation		
General Product Approval EMC Functional Safety/Safety of Machinery Test Certific- ates other	Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Safety/Safety of Machinery ates Type Examination Special Test Certi- Confirmation	ertificates/ approvals	
of Machinery Type Examination Special Test Certi- Confirmation	General Product Approval EMC	Functional Test Certific- other
Type Examination Special Test Certi- Confirmation		Safety/Safety ates
Image: Confirmation matrix Type Examination matrix Special Test Certificate Confirmation matrix Image: Confirmation matrix Certificate Special Test Certificate Confirmation		of Machinery
(CCC) LHI C <u>Certificate</u> <u>ficate</u>		
		<u>Certificate</u> <u>ficate</u>

Information- and Downloadcenter (Catalogs, Brochures,...) www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1264-6AP36-0KA1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1264-6AP36-0KA1

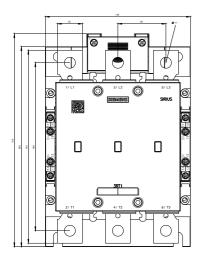
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

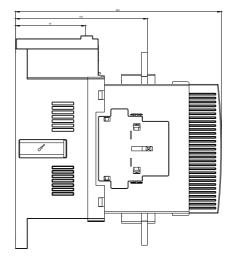
https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AP36-0KA1

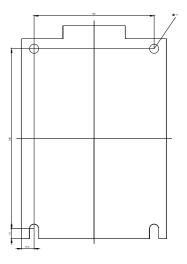
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1264-6AP36-0KA1&lang=en

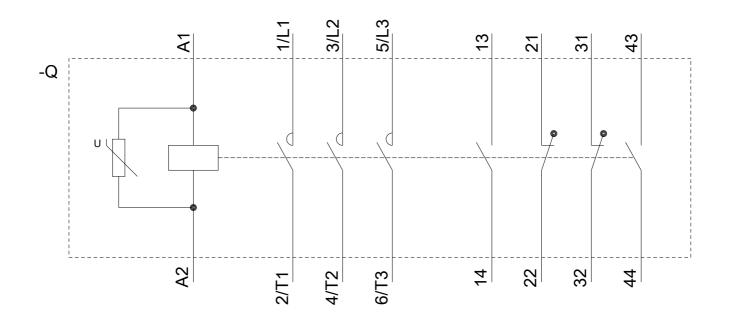
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AP36-0KA1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1264-6AP36-0KA1&objecttype=14&gridview=view1









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09/04/2019