SIEMENS

Data sheet 3RT1265-6NP36

Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 200-277 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: electronic with PLC interface 24 V DC



Figure similar

Product brand name	SIRIUS
Product designation	Vacuum contactor
Product type designation	3RT12

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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- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
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 rated value	330 A
— up to 1000 V at ambient temperature 60 °C rated value	300 A
• at AC-2 at 400 V rated value	265 A
• at AC-3	
	265 A
— at 400 v rated value	203 A
— at 400 V rated value— at 500 V rated value	265 A

— at 690 V rated value	265 A
— at 1000 V rated value	265 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 	185 mm²
 at 40 °C minimum permissible 	185 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• 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 the operating current per conductor	12 W
No-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 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	200 277 V
• at 60 Hz rated value	200 277 V
Control supply voltage at DC	
• rated value	200 277 V
Type of PLC-control input acc. to IEC 60947-1	Type 1
Consumed current at PLC-control input acc. to IEC 60947-1 maximum	20 mA
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	570 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.6 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
Closing power of magnet coil at DC	630 W
Holding power of magnet coil at DC	3.4 W
Closing delay	
• at AC	45 80 ms
• at DC	45 80 ms
Opening delay	
• at AC	80 100 ms
• at DC	80 100 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
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	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

 \bullet for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 500 A (690 V, 100 kA)

gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450

A (415 V, 50 kA)

gG: 10 A (500 V, 1 kA)

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

• at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

AWG number as coded connectable conductor cross section

• for auxiliary contacts

18 ... 14

Safety related data

Product function

1

• Mirror contact acc. to IEC 60947-4-1

Yes

• positively driven operation acc. to IEC 60947-5-

No

Protection against electrical shock

finger-safe when touched vertically from front acc. to IEC 60529

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination
Certificate



Test Certificates

Marine / Shipping

other

Special Test Certificate

Type Test Certificates/Test Report







Confirmation

other

Miscellaneous

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=3RT1265-6NP36

Cax online generator

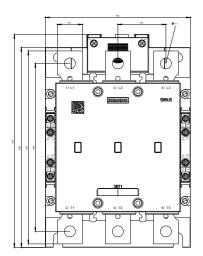
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1265-6NP36}\\$

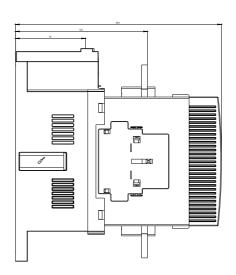
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

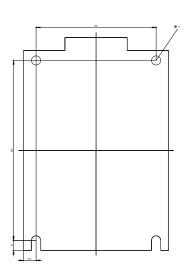
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6NP36

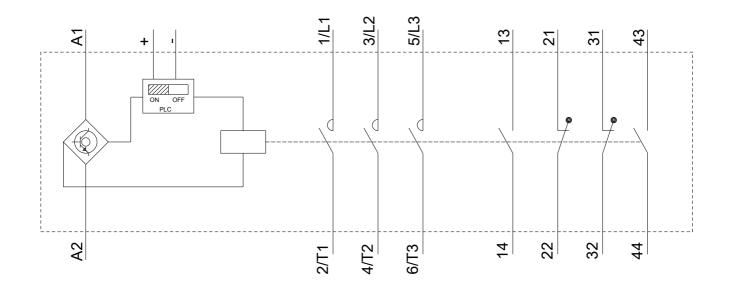
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6NP36&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6NP36&objecttype=14&gridview=view1









last modified: 12/22/2018