SIEMENS

Data sheet 3RT1265-6AP36

Vacuum contactor, AC-3 265 A, 132 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



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-	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
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	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	265 A
at 1000 V lated value	

• at AC-4 at 400 V rated value	230 A
• at AC-6a	
up to 230 V at current peak n=20 rated value	278 A
up to 400 V at current peak n=20 rated value	278 A
— up to 500 V at current peak n=20 rated value	278 A
up to 690 V at current peak n=20 rated value	278 A
● at AC-6a	
 up to 230 V at current peak n=30 rated value 	185 A
up to 400 V at current peak n=30 rated value	185 A
— up to 500 V at current peak n=30 rated value	185 A
— up to 690 V at current peak n=30 rated value	185 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 230 V rated value— at 400 V rated value	75 kW 132 kW
— at 400 V rated value	132 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	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
0-4-1-1	
Control circuit/ Control Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	ACIDO
• at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
Control supply voltage at DC	220 2.10 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	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

Design of the fuse link

• 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)

- 1	
nstallation/ 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

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 contacts 	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	
 Mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5- 	No

Certificates/approvals

Protection against electrical shock

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

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination
Certificate



Declaration of Conformity	Test Certificates	Marine / Shipping

Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report







other

Miscellaneous

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=3RT1265-6AP36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1265-6AP36}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36

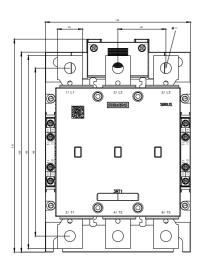
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AP36&lang=en

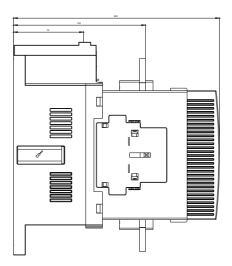
Characteristic: Tripping characteristics, I2t, Let-through current

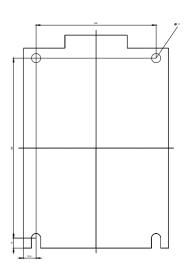
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36/char

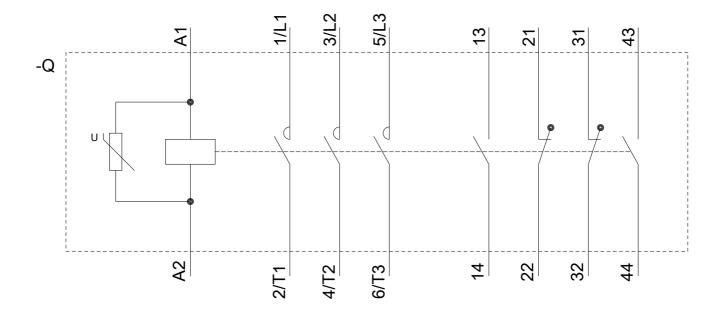
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AP36&objecttype=14&gridview=view1









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