SIEMENS

Data sheet 3RT1265-6AD36

Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 42-48 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- 	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	12 W
the operating current per conductor	
No-load switching frequency	2 000 1/h
• at AC	2 000 1/h
• at DC Operating frequency	2 000 1/11
	750 1/h
• at AC 2 maximum	250 1/h
• at AC 2 maximum	750 1/h
• at AC 4 maximum	250 1/h
● at AC-4 maximum	250 1/11
Control circuit/ Control	

Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	42 48 V
• at 60 Hz rated value	42 48 V
Control supply voltage at DC	
• rated value	42 48 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 AO-12 maximum	IUA
Operating current at AC-15	10 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	
• 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
Wounting position	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	Compating
• for main current circuit	Connection bar
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	0/0 500 h'l
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

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

Type Test Certificates/Test Report

Special Test Certificate







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=3RT1265-6AD36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AD36

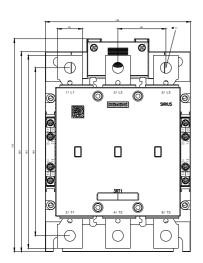
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

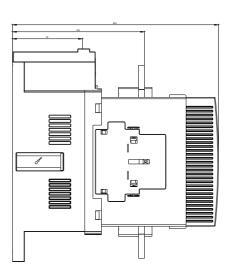
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AD36

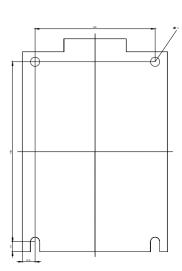
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AD36&lang=en

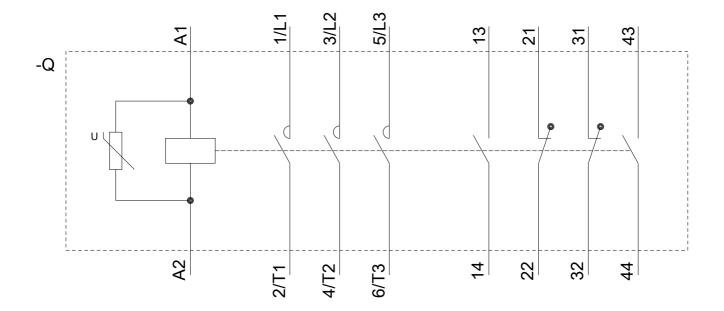
Characteristic: Tripping characteristics, I2t, Let-through current

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