SIEMENS

Data sheet

3RT1265-6AT36

Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 575-600 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
• on the front	

Charle projetance at restance when incrudes	
Shock resistance at rectangular impulse	8 Fa / F ma 4 2a / 10 ma
• 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 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	330 A
rated value	
rated value — up to 1000 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 60 °C	300 A 265 A
— up to 1000 V at ambient temperature 60 °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 	
 up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value 	265 A

at 690 V rated value265 A at 1000 V rated value265 A• at AC-4 at 400 V rated value230 AConnectable conductor cross-section in main circuit at AC-1185 mm²• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²• at 400 V rated value115 A• at 600 V rated value81 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 at 40 °C minimum permissible 185 mm² Operating current for approx. 200000 operating cycles at AC-4 at 400 V rated value 115 A 	
Connectable conductor cross-section in main circuit at AC-1 185 mm² • at 60 °C minimum permissible 185 mm² • at 40 °C minimum permissible 185 mm² Operating current for approx. 200000 operating cycles at AC-4 115 A	
at AC-1185 mm²• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²Operating current for approx. 200000 operating cycles at AC-4185 mm²• at 400 V rated value115 A	
• at 60 °C minimum permissible185 mm²• at 40 °C minimum permissible185 mm²Operating current for approx. 200000 operating cycles at AC-4115 A	
• at 40 °C minimum permissible 185 mm ² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 115 A	
Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 115 A	
e 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	
• 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	
Control circuit/ Control	

Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	575 600 V
• at 60 Hz rated value	575 600 V
Control supply voltage at DC	
rated value	575 600 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	30 95 ms
• at AC	30 95 ms
• at DC	30 95 ms
Opening delay	40 80 ms
• at AC	40 80 ms
• at DC	10 15 ms
Arcing time Control version of the switch operating mechanism	Standard A1 - A2
	Stanudiù AT - AZ
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)

OL/OOA Tallings	
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)

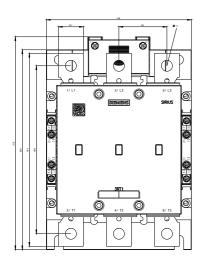
Installation/ mounting/ dimensions

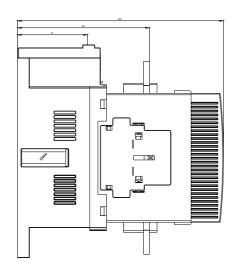
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be	
Mounting position	tilted forward and backward by +/- 22.5° on vertical mounting	
	surface; standing, on horizontal mounting surface	
Mounting type	screw fixing	
 Side-by-side mounting 	Yes	
Height	210 mm	
Width	145 mm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

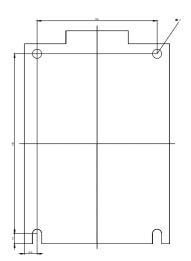
), 1x 12	
18 14		
Yes		
No		
finger-safe when touched	vertically from front	acc. to IEC 60529
	Functional Safety/Safety of Machinery	Declaration of Conformity
EHC	Type Examination Certificate	EG-Konf.
ipping		other
RMRS	ANVELCOM/AF	<u>Confirmation</u>
)		
) Ifb=3RT1265-6AT36		
	<u>6AT36</u>	
	Yes No finger-safe when touched EERE ipping	Yes No finger-safe when touched vertically from front a functional Safety/Safety of Machinery Type Examination Certificate

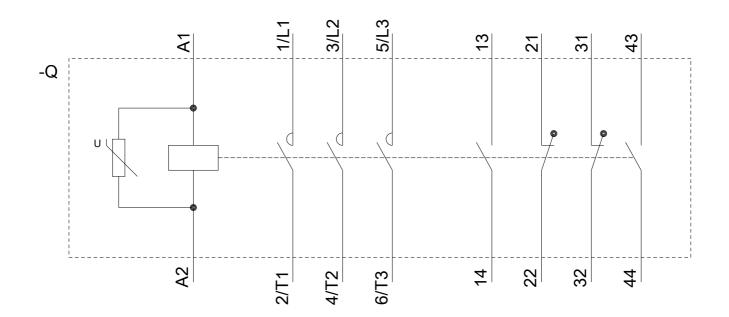
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AT36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AT36/char









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