## **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



Figure similar

Product brand name	SIRIUS		
Product designation	Vacuum contactor		
Product type designation	3RT12		
General technical data			
Size of contactor	S10		
Product extension			
<ul> <li>function module for communication</li> </ul>	No		
Auxiliary switch	Yes		
Surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	8 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for safe isolation			
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	690 V		
60947-1			
Protection class IP			
• on the front	IP00; IP20 on the front with cover / box terminal		
• of the terminal	IP00		

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)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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				
<ul> <li>during operation</li> </ul>	-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				
<ul> <li>at AC-3 rated value maximum</li> </ul>	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				
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> </ul>				
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-2 at 400 V rated value</li> </ul>	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 690 V rated value81 A	
<ul> <li>at AC-4 at 400 V rated value</li> <li>230 A</li> <li>Connectable conductor cross-section in main circuit at AC-1         <ul> <li>at 60 °C minimum permissible</li> <li>at 40 °C minimum permissible</li> <li>185 mm<sup>2</sup></li> </ul> </li> <li>Operating current for approx. 200000 operating cycles at AC-4         <ul> <li>at 400 V rated value</li> <li>115 A</li> </ul> </li> </ul>	
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 <sup>2</sup> 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	220 240 V
• at 60 Hz rated value	220 240 V
Control supply voltage at DC	
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	
	0.9
• at 50 Hz	0.9 700 W
Closing power of magnet coil at DC Holding power of magnet coil at DC	
Closing delay	8.2 W
• 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	2
instantaneous contact	2
Number of NO contacts for auxiliary contacts	0
• instantaneous contact	2
• instantaneous contact Operating current at AC-12 maximum	2 10 A
• instantaneous contact	

1 faulty switching per 100 million (17 V, 1 mA)	
0.1 A	
0.3 A	
0.9 A	
1 A	
2 A	
2 A	
10 A	
0.15 A	
1 A	
2 A	
3 A	
6 A	
6 A	
10 A	
1 A	
2 A	

OL/OSA rallings	
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]	
<ul> <li>for three-phase AC motor</li> </ul>	
— 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

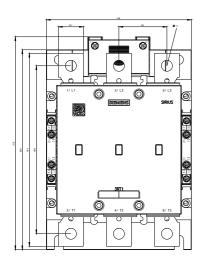
## Short-circuit protection Design of the fuse link gG: 500 A (690 V, 100 kA) • for short-circuit protection of the main circuit gG: 500 A (690 V, 100 kA) - with type of coordination 1 required gG: 500 A (690 V, 100 kA) - with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 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)

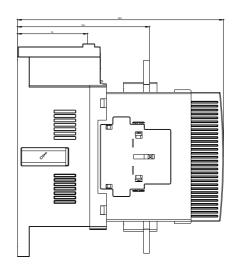
Installation/ mounting/ dimensions

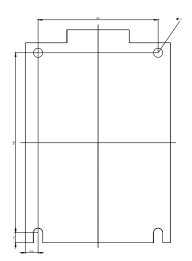
Mounting position	+/ 22.5° rotation possible on vortical mounting surfaces can be		
Mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface		
Mounting type	screw fixing		
<ul> <li>Side-by-side mounting</li> </ul>	Yes		
Height	210 mm		
Width	145 mm		
Depth	206 mm		
Required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— 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			
<ul> <li>for main current circuit</li> </ul>	Connection bar		
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals		
Type of connectable conductor cross-sections			
<ul> <li>at AWG conductors for main contacts</li> </ul>	2/0 500 kcmil		
Connectable conductor cross-section for main contacts			
• stranded	70 240 mm²		
Connectable conductor cross-section for auxiliary contacts			
<ul> <li>single or multi-stranded</li> </ul>	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
Type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— 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)		

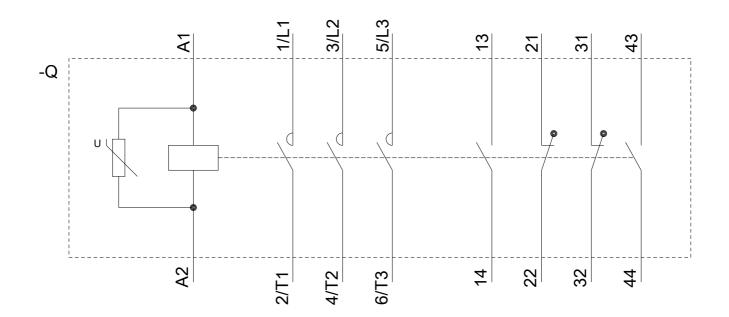
• at AWG conductors for auxiliary cor	ntacts	2x (20 16), 2x (18 14), 1x 12		
AWG number as coded connectable conc section	luctor cross			
• for auxiliary contacts		18 14		
Safety related data				
Product function				
• Mirror contact acc. to IEC 60947-4-	1	Yes		
<ul> <li>positively driven operation acc. to IE</li> <li>1</li> </ul>	EC 60947-5-	No		
Protection against electrical shock		finger-safe when touche	d vertically from front	acc. to IEC 60529
Certificates/approvals				
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
		EHC	Type Examination Certificate	EG-Konf.
Test Certificates	Marine / S	hipping		other
Special Test Certi-         Type Test Certific-           ficate         ates/Test Report	ABS	RMRS	DNVGL.COM/AF	<u>Miscellaneous</u>
other				
Confirmation				
Eurthor information				
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 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⟨=en				

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36/char









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