SIEMENS

Data sheet

3RT1265-6AD36



vacuum contactor AC-3e/AC-3 265 A, 132 kW / 400 V, 3-pole, Uc: 42-48 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

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
power loss [W] for rated value of the current	
at AC in hot operating state	36 W
at AC in hot operating state per pole	12 W
 without load current share typical 	8.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
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 according to EN 60947-1	690 V
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 (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

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
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	330 A
rated value	
• at AC-1	220 A
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C	300 A
rated value	
 — up to 1000 V at ambient temperature 40 °C 	330 A
rated value	
— up to 1000 V at ambient temperature 60 °C	300 A
rated value ● at AC-3	
• 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 AC-3e	2007
— 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 AC-4 at 400 V rated value 	230 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated 	265 A
value	
 — up to 400 V for current peak value n=20 rated value 	265 A
— up to 500 V for current peak value n=20 rated	265 A
value	203 A
— up to 690 V for current peak value n=20 rated	265 A
value	
 up to 1000 V for current peak value n=20 rated 	265 A
value	
• at AC-6a	000 A
 — up to 230 V for current peak value n=30 rated value 	209 A
— up to 400 V for current peak value n=30 rated	209 A
value	
 — up to 500 V for current peak value n=30 rated 	209 A
value	
 — up to 690 V for current peak value n=30 rated value 	209 A
— up to 1000 V for current peak value n=30 rated	209 A
value	200 A
minimum cross-section in main circuit at maximum AC-1	185 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4 • at 400 V rated value	115 A
at 690 V rated value	115 A
operating power	HUA .
• 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
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW

at 500 V rated value	100 1/11
— at 500 V rated value	160 kW
— at 690 V rated value — at 1000 V rated value	250 kW 355 kW
operating power for approx. 200000 operating cycles	555 KW
at AC-4	
• at 400 V rated value	65 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	100 000 kVA
 up to 400 V for current peak value n=20 rated value 	180 000 VA
 up to 500 V for current peak value n=20 rated value 	220 000 VA
• up to 690 V for current peak value n=20 rated value	310 000 VA
 up to 1000 V for current peak value n=20 rated value 	450 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	80 000 VA
• up to 400 V for current peak value n=30 rated value	140 000 VA
 up to 500 V for current peak value n=30 rated value 	180 000 VA
• up to 690 V for current peak value n=30 rated value	250 000 VA
 up to 1000 V for current peak value n=30 rated 	360 000 VA
value	
no-load switching frequency	0.000 4/h
● at AC ● at DC	2 000 1/h
	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-3e 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	42 48 V
at 50 Hz rated valueat 60 Hz rated value	42 48 V 42 48 V
 at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 	42 48 V
 at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value 	
 at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 	42 48 V
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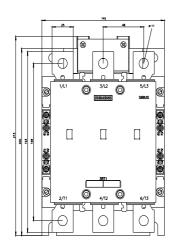
● at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational 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
operational current at DC-12	10.4
 at 24 V rated value at 48 V rated value 	10 A 6 A
at 40 V rated value at 60 V rated value	6 A
at 50 V rated value at 110 V rated value	3 A
at 125 V rated value	2 A
at 125 v fated value at 220 V rated value	1A
at 600 V rated value	0.15 A
operational 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 3-phase AC motor	
• at 480 V rated value	240 A
 at 600 V rated value 	242 A
yielded mechanical performance [hp]	
 for 3-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	
	+/-22,5° rotation possible on vertical mounting surface; can be tilted
mounting position	forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
fastening method	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

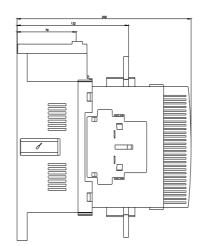
Growards 20 mm	Certificates/ approva General Product A	pproval		Ű		EAC
	Certificates/ approva		<u>Confirmatio</u>	n Qu	KC	EAC
- upwards - at the side - downwards - downwards - downwards - upwards - upwarestreated - upwarestreated - upwarestreated - upware	Certificates/ approva		<u>Confirmatio</u>		KC	EAC
	Certificates/ approva		Confirmation		KC	
	Certificates/ approva					
	-	IS				
- upwards 10 mm - at the side 10 mm - downwards 10 mm - for live parts 20 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 2 mm - downwards 2 mm - downwards 1 mm - downwards 1 mm - downetable conductor cross-section for auxiliary 1 mm² - solid 0.5 4 mm² - solid or stranded 0.5 2.5 mm²), xx (0.75 2.5 mm²), max 2x (0.75 4 mm²)	 safety-related s 	-				
	-		Yes			
	-		120 00020	inger-sale, for vertical con		
		the front according to	IEC 60529	finger-safe for vertical contact from the front with how terminal/cover		
- upwards 10 mm - at the side 10 mm - downwards 10 mm - forwards 20 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm • for auxiliary contacts Screw-type terminals • of many theoremetion bar 6 mm thickness of connection bar 6 mm thickness of connection bar 11 mm number of holes 11 • stranded 0.5 4 mm ² • stranded 0.5 2.5 mm ³ , tx (0.75 2.5 mm ³), max 2x (0.75 4 mm ²) • solid or stranded 0.5 1.5 mm ³ , 2	protection class IP	on the front according	to IEC	IP00; IP20 with box terminal/cover		
upwards 10 mm at the side 10 mm downwards 10 mm forwards 20 mm forwards 10 mm upwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm at the side 0 ma <td colspan="2">T1 value for proof test interval or service life according to</td> <td colspan="2">20 a</td>	T1 value for proof test interval or service life according to		20 a			
- upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts 20 mm - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm for auxiliary contacts Screw-type terminals of magnet coll Screw-type terminals width of connection bar Screw-type terminals number of holes 11 mm number of holes 1 onnectable conductor cross-section for auxiliary contacts 0.5 4 mm² of inely stranded with core end processing 0.5 2.5 mm²	 positively drive 			No		
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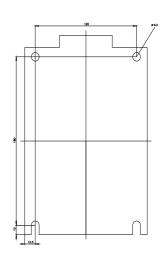
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					other
ABS	Llovd's Register uis	PRS	RMRS RMRS	DNV-GL	<u>Confirmation</u>
other		Railway			
<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate	<u>Vibration and Shock</u>		
Further information					
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 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⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current					

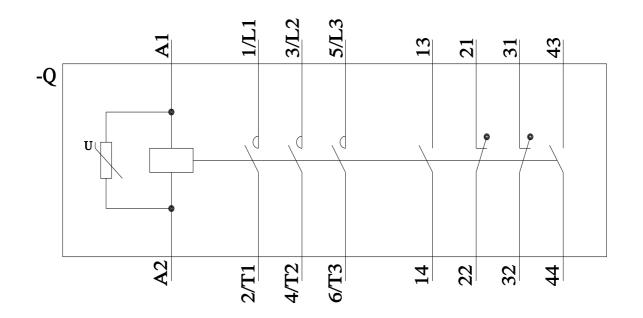
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AD36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AD36&objecttype=14&gridview=view1









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