SIEMENS

Data sheet

3RT1265-6AP36



vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional

product designation Vacuum contactor product type designation St112 concrat technical data St10 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 36 W • at AC in hot operating state per pole 12 W • without load current share typical 82 W insulation voitage 1000 V • of auxiliary circuit with degree of pollution 3 rated value 6 KV • of auxiliary circuit with degree of pollution 3 rated value 6 KV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • of auxiliary circuit with degree of pollution 3 rated value 8 kV • at AC 8 kV • at AC 8 kJV • at AC 10 000 00 <tr< th=""><th>product brand name</th><th>SIRIUS</th></tr<>	product brand name	SIRIUS
General technical data S10 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 82 W • of main circuit with degree of pollution 3 rated value 1 000 V 500 V • of main circuit with degree of pollution 3 rated value 1 000 V 500 V • of main circuit rated value 6 kV 600 V surge voltage resistance • 6 kV 600 V • of maxinum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1 850 V shock resistance at rectangular impulse • 4 AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms 600 000 • at AC 13,4g / 5 ms, 6,5g / 10 ms • at AC 10,000 000 5000 000 • at DC <	product designation	Vacuum contactor
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installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	05/01/2012
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	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	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	1 000 \/
at AC-3 rated value maximum	1 000 V
operational current	1 000 V
•	330 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	550 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-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	
— 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 value 	265 A
— 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 value 	265 A
 — up to 690 V for current peak value n=20 rated value 	265 A
 — up to 1000 V for current peak value n=20 rated value 	265 A
● at AC-6a	
 — 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 value 	209 A
 — up to 500 V for current peak value n=30 rated value 	209 A
 — 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 value	209 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
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	
• at AC-3	75 1441
— 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	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
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 value	360 000 VA
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-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	220 240 V
at 60 Hz rated value	220 240 V
al UU HZ IALEU VAIUE	220 240 V
control supply voltage at DC	220 240 V
control supply voltage at DC rated value 	
rated value operating range factor control supply voltage rated	220 240 V 220 240 V
rated value operating range factor control supply voltage rated value of magnet coil at DC	220 240 V
rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	220 240 V 0.8
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated	220 240 V
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC	220 240 V 0.8 1.1
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz 	220 240 V 0.8 1.1 0.8 1.1
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz 	220 240 ∨ 0.8 1.1 0.8 1.1 0.8 1.1
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor	220 240 V 0.8 1.1 0.8 1.1
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz by at 50 Hz coil at 50 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 60 Hz at 60 Hz at 60 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 590 VA 590 VA
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 590 VA 0.9 0.9
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz 	220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 590 VA 590 VA

inductive newer factor with the holding newer of the	_			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
closing power of magnet coil at DC	700 W			
holding power of magnet coil at DC	700 W 8.2 W			
closing delay	0.2 W			
• at AC	30 95 ms			
• at DC	30 95 ms 30 95 ms			
opening delay	50 55 ms			
• at AC	40 80 ms			
• at DC	40 80 ms			
	10 15 ms			
arcing time control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit	Standard AT - Az			
number of NC contacts for auxiliary contacts instantaneous contact	2			
number of NO contacts for auxiliary contacts	2			
instantaneous contact				
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	-			
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	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	1A			
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 480 V rated value at 600 V rated value 	240 A 242 A			
	242 M			
yielded mechanical performance [hp]				
for 3-phase AC motor at 200/208 V rated value	75 hp			
- 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 auxiliany switch	V, 50 kA) gG: 10 A (500 V, 1 kA)			
 for short-circuit protection of the auxiliary switch required 	90. 10 A (000 V, 1 NA)			
- 4· · · ·				

Installation/ 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;			
fastening method	standing, on horizontal mounting surface			
side-by-side mounting	screw fixing			
• side-by-side mounting height	Yes 210 mm			
width	145 mm			
depth	206 mm			
required spacing	200 mm			
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 circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
of magnet coil	Screw-type terminals			
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
type of connectable conductor cross-sections				
 at AWG cables for main contacts 	2/0 500 kcmil			
connectable conductor cross-section for main				
contacts	70 040 2			
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
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)			
— solid or stranded	2x (0.5 1.5 mm ²), 2x (0.75 2,5 mm ²), max. 2x (0.75 4 mm ²)			
— finely stranded with core end processing	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)			
at AWG cables 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 according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947- 	No			
5-1				
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover			
	anger sure, for vertical contact form the none with box terminal/ouver			

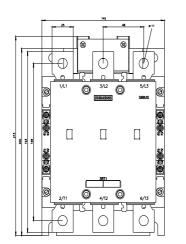
suitability for use • safety-related s Certificates/ approva	-	Yes			
General Product A					
() M	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Machinery	Declaration of Confo	rmity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	C C EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific</u> ates/Test Report
Marine / Shipping					other
ABS	Lloyds Register	PRS	KMRS	DNV-GL	<u>Confirmation</u>
other		Railway			
<u>Miscellaneous</u>	<u>Confirmation</u>	Special Test Certific- ate			
urther information					
https://www.siemens Industry Mall (Onlin https://mall.industry.s Cax online generato http://support.automa Service&Support (M https://support.indust Image database (pr http://www.automatic	le ordering system) siemens.com/mall/en/en or ation.siemens.com/WW/ Manuals, Certificates, C try.siemens.com/cs/ww/ oduct images, 2D dime	/Catalog/product?mlfb=3/ CAXorder/default.aspx?la Characteristics, FAQs, en/ps/3RT1265-6AP36 ension drawings, 3D mc ax_de.aspx?mlfb=3RT12	ang=en&mlfb=3RT1 .) odels, device circui	it diagrams, EPLAN mac	cros,)

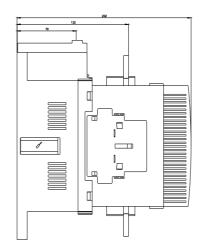
 Characteristic: Tripping characteristics, Pt, Let-through current

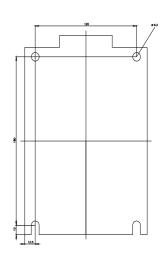
 https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36/char

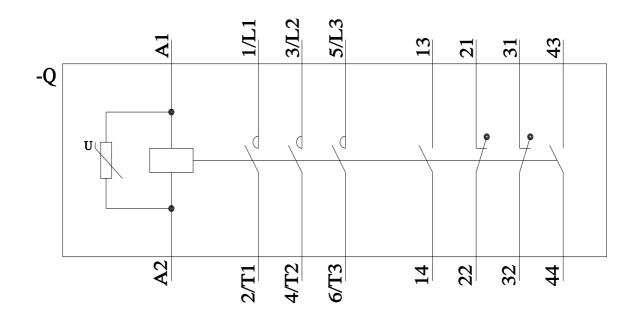
 Further characteristics (e.g. electrical endurance, switching frequency)

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









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3/24/2022 🖸