## SIEMENS

## Data sheet

## 3RT1265-6AR36



vacuum contactor AC-3e/AC-3 265 A, 132 kW / 400 V, 3-pole, Uc: 440-480 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 drand name	Vacuum contactor
	3RT12
product type designation General technical data	JRTIZ
	C10
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
<ul> <li>at AC in hot operating state per pole</li> </ul>	12 W
without load current share typical	8.2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
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 protective separation 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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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 %

ain 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 rated	330 A	
value		
• 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 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	
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	230 A	
● at AC-6a		
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	265 A	
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	265 A	
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	265 A	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	265 A	
<ul> <li>— up to 1000 V for current peak value n=20 rated value</li> </ul>	265 A	
● at AC-6a		
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	209 A	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	209 A	
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	209 A	
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	209 A	
<ul> <li>— up to 1000 V for current peak value n=30 rated value</li> </ul>	209 A	
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm <sup>2</sup>	
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		
— 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-		

a at 400 V rated value	SE MM
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
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	220 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	310 000 VA
up to 1000 V for current peak value n=20 rated value	450 000 VA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	80 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	140 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	180 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	250 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	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	440 480 V
• at 60 Hz rated value	440 480 V
control supply voltage at DC	
rated value	440 480 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 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	6.1 VA
• at 60 Hz	6.1 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
• at 50 Hz	0.9
	0.0
closing power of magnet coil at DC	700 W
closing power of magnet coil at DC	700 W 8.2 W
holding power of magnet coil at DC	700 W 8.2 W
holding power of magnet coil at DC closing delay	8.2 W
holding power of magnet coil at DC closing delay • at AC	8.2 W 30 95 ms
holding power of magnet coil at DC closing delay • at AC • at DC	8.2 W
holding power of magnet coil at DC closing delay • at AC • at DC opening delay	8.2 W 30 95 ms 30 95 ms
holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC	8.2 W 30 95 ms 30 95 ms 40 80 ms
holding power of magnet coil at DC         closing delay         • at AC         • at DC         opening delay         • at AC         • at AC	8.2 W 30 95 ms 30 95 ms 40 80 ms 40 80 ms
holding power of magnet coil at DC         closing delay         • at AC         • at DC         opening delay         • at AC	8.2 W 30 95 ms 30 95 ms 40 80 ms

Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	2		
contact	2		
number of NO contacts for auxiliary contacts instantaneous	2		
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	1 A		
• 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			
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		
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		
— ipiwards	20 mm		
— upwards — downwards	10 mm		
— downwards — at the side	10 mm 0 mm		
<ul> <li>— at the side</li> <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				
for main current circuit	Connection bar			
<ul> <li>for auxiliary and control circuit</li> </ul>	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			
connectable conductor cross-section for main contacts				
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>			
type of connectable conductor cross-sections	0.5 2.5 mm			
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 <sup>2</sup> ), 2x (0.75 2,5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )			
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )			
for AWG cables for auxiliary contacts	2x (0.0 16), 2x (18 14), 1x 12			
AWG number as coded connectable conductor cross	24 (20 10), 24 (10 14), 14 12			
section				
<ul> <li>for auxiliary contacts</li> </ul>	18 14			
Safety related data				
product function				
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes			
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No			
T1 value for proof test interval or service life according to IEC 61508	20 a			
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			
suitability for use				
safety-related switching OFF	Yes			
Certificates/ approvals				
General Product Approval				
Confirmation (CONFIRMENTIAL CONFIRMENTIAL CONFIRMENTAL CONFIRMENTA CONFIRMENTA CONFIRMENTA CONFIRMENTA CONFIRMENTA CONFIRMENTE	TAA 🕺 🕐			
CSA CCC				
Functional				
EMC Safety/Safety of Ma- Declaration of	Conformity Test Certificates			
chinery				
Type Examination Cer-	Type Test Certific- Special Test Certific-			
In the tilicate of the tilicat	<u>ates/Test Report</u> <u>ate</u>			
RCM EG-Konf.	UK     Type Test Certific- ates/Test Report     Special Test Certific- ate       CA     ates/Test Report     ate			
Marine / Shipping	other			
	Vitor			

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other		Railway		
Confirmation	Miscellaneous	Vibration and Shock	Special Test Certific-	
			ate	

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT1265-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AR36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

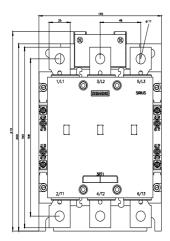
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1265-6AR36&lang=en

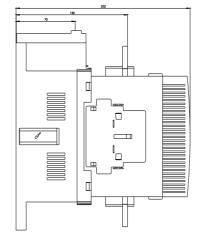
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

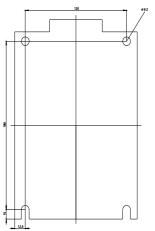
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AR36/char

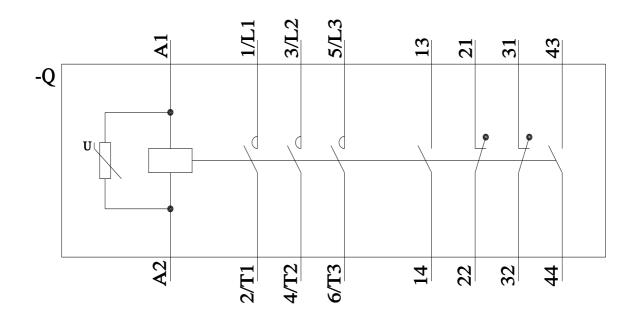
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AR36&objecttype=14&gridview=view1









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