## SIEMENS

## Data sheet

## 3RT1264-6AS36



vacuum contactor AC-3e/AC-3 225 A, 110 kW / 400 V, 3-pole, Uc: 500-550 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
	510
product extension	No
function module for communication	No Yes
auxiliary switch	res
power loss [W] for rated value of the current	07.14
at AC in hot operating state	27 W
at AC in hot operating state per pole	9 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
of auxiliary circuit with degree of pollution 3 rated value	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 %

lain 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
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	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 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	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	195 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	225 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	225 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	225 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	225 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	225 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> <li>— up to 1000 V for current peak value n=30 rated</li> </ul>	209 A 209 A
value minimum cross-section in main circuit at maximum AC-1 rated	185 mm²
value operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	97 A
at 400 V rated value     at 690 V rated value	97 A
operating power	
• at AC-3	
- at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	315 kW
• at AC-3e	
	EE MM
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value — at 1000 V rated value	200 kW 315 kW
operating power for approx. 200000 operating cycles at AC- 4	

• at 400 V rated value	55 kW
at 690 V rated value	94 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	90 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	150 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	190 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	260 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	390 000 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	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	
• at AC-4 maximum Control circuit/ Control	250 1/h
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	520 5501/
• at 50 Hz rated value	500 550 V
• at 60 Hz rated value	500 550 V
control supply voltage at DC	
rated value	500 550 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	0.0
	6.1.1/A
• 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 60 Hz	0.9
closing power of magnet coil at DC	700 W
holding power of magnet coil at DC	8.2 W
closing delay	
● at AC	30 95 ms
• at DC	30 95 ms
	30 95 ms
• at DC	30 95 ms 40 80 ms
at DC     opening delay	
• at DC opening delay • at AC	40 80 ms
at DC     opening delay         e at AC         e at DC	40 80 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	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 125 V rated value     at 220 V rated value	0.9 A
at 220 V rated value     at 600 V rated value	0.3 A 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	190.4
at 480 V rated value	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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
- ·	κ̈́A)
• 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
factaning method	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
— downwards	10 mm
— at the side	0 mm
for grounded parts	

famurada	00		
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
for live parts	20		
— 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 mm <sup>2</sup>		
finely stranded with core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— solid	2x (0.5 1.5 mm²), 2x (0.75		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75		4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x	12	
AWG number as coded connectable conductor cross section			
for auxiliary contacts	18 14		
Safety related data	10 14		
product function	Yes		
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>			
	No 20 c		
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/co	ver	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact		minal/cover
suitability for use			
safety-related switching OFF	Yes		
Certificates/ approvals			
General Product Approval			
<u>Confirmatic</u>	n A	<u>KC</u>	
	(Ui)		ГЦГ
			LUL
C2A CCC	UL		
Functional			
EMC Safety/Safety of Ma- Declaration of	Conformity	Test Certificates	
chinery			
•			
Type Examination Cer- tificate	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
	ΞÔ		
RCM EG-Konf.	LH		
Marine / Shipping			other

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other		Railway		
Miscellaneous	Confirmation	Vibration and Shock	Special Test Certific-	
Miscellaneous	Commination	VIDIATION AND SHOCK	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=3RT1264-6AS36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1264-6AS36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AS36

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

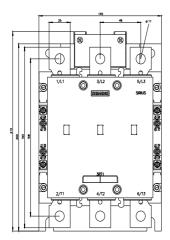
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1264-6AS36&lang=en

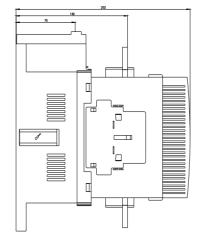
Characteristic: Tripping characteristics, I2t, Let-through current

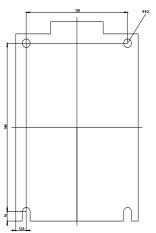
https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AS36/char

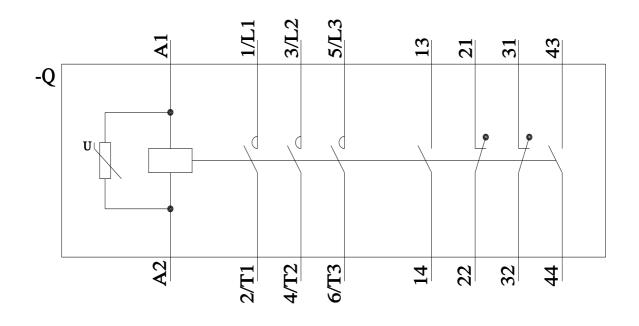
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1264-6AS36\&objecttype=14&gridview=view1$ 









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