SIEMENS

Data sheet 3RT1265-6AF36



Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional

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
• per pole	12 W
power loss [W] for rated value of the current without load current share typical	8.2 W
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 acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.05.2012 00:00:00
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 acc. 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
operational 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 $^{\circ}\text{C}$ 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-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 at AC-6a 	265 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 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 minimum cross-section in main circuit at maximum AC-1	209 A 185 mm ²
operational current for approx. 200000 operating	100 11111
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 — at 690 V rated value	250 kW
— at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4	355 kW
• at 400 V rated value	65 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	400,000 11/4
• up to 230 V for current peak value n=20 rated value	100 000 kV·A
 up to 400 V for current peak value n=20 rated value 	180 000 V·A
 up to 500 V for current peak value n=20 rated value 	220 000 V·A

	040,000,144
 up to 690 V for current peak value n=20 rated value 	310 000 V·A
up to 1000 V for current peak value n=20 rated value	450 000 V·A
value	
operating apparent power at AC-6a	00 000 1/ 4
• up to 230 V for current peak value n=30 rated value	80 000 V·A
 up to 400 V for current peak value n=30 rated value 	140 000 V·A
 up to 500 V for current peak value n=30 rated value 	180 000 V·A
 up to 690 V for current peak value n=30 rated value 	250 000 V·A
up to 1000 V for current peak value n=30 rated value	360 000 V·A
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	200 1/11
	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	440 40714
• at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 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
• at 60 Hz	590 V·A
inductive power factor with closing power of the coil	000 V A
at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	0.4.V.A
• at 50 Hz	6.1 V·A
• at 60 Hz	6.1 V·A
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
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
	Standard A1 - A2
control version of the switch operating mechanism	StatiualU AT - AZ
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts	2

instantaneous contact	
instantaneous contact operational current at AC-12 maximum	10 A
operational current at AC-12 maximum operational current at AC-15	IVA
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value	2 A 1 A
at 690 V rated value operational current at DC-12	I A
·	40 A
at 24 V rated valueat 48 V rated value	10 A 6 A
at 46 V rated value at 60 V rated value	6 A
	3 A
at 110 V rated value at 125 V rated value	2 A
at 125 V rated valueat 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	10 A
at 24 V rated value	
at 48 V rated value at 60 V rated value	2 A 2 A
at 60 V rated valueat 110 V rated value	1 A
	0.9 A
at 125 V rated value at 220 V rated value	
at 220 V rated valueat 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	040.4
at 480 V rated value	240 A
• at 600 V rated value	242 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	75 ha
— 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	gG: 10 A (500 V, 1 kA)
required	90. 1071 (000 4, 1101)
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
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm

Safety related data product function mirror contact acc. to IEC 60947-4-1	Yes
for auxiliary contacts	18 14
section	40 44
AWG number as coded connectable conductor cross	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
for auxiliary contacts	
type of connectable conductor cross-sections	
finely stranded with core end processing	0.5 2.5 mm ²
solid or stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
stranded connectable conductor cross-section for auxiliary	70 240 mm²
contacts	70 240 mm ²
connectable conductor cross-section for main	
at AWG cables for main contacts	2/0 500 kcmil
type of connectable conductor cross-sections	
of magnet coil	Screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
for main current circuit	Connection bar
type of electrical connection	
number of holes	1
diameter of holes	11 mm
thickness of connection bar	6 mm
width of connection bar	25 mm
Connections/ Terminals	
— at the side	10 mm
— downwards	10 mm
— upwards	10 mm
— forwards	20 mm
for live parts	
— at the side— downwards	10 mm
	10 mm







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Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping other Railway





<u>Confirmation</u> <u>Miscellaneous</u>

Confirmation

Special Test Certificate

Further information

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=3RT1265-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AF36

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

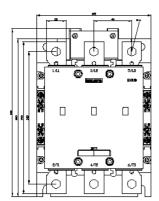
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AF36&lang=en

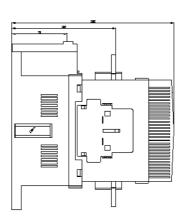
Characteristic: Tripping characteristics, I2t, Let-through current

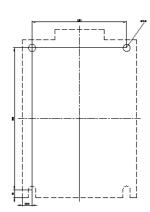
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AF36/char

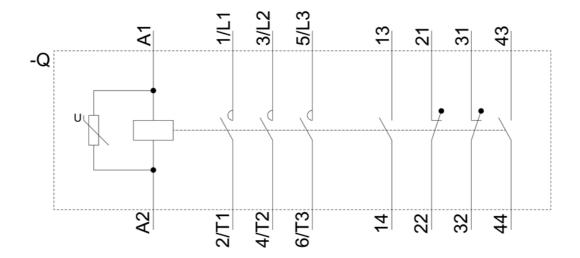
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AF36&objecttype=14&gridview=view1









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