SIEMENS

Data sheet 3RT1265-6AB36



Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 23-26 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	95 %

maximum	
Aain 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	330 A
rated value	000 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C	330 A
rated value	
— 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	200 4
— up to 1000 V at ambient temperature 60 °C rated value	300 A
• at AC-3	
— at 400 V rated value	265 A
— at 400 V rated value — at 500 V rated value	265 A
	265 A
— at 690 V rated value	
— at 1000 V rated value● at AC-4 at 400 V rated value	265 A
	230 A
• at AC-6a	205.4
 up to 230 V for current peak value n=20 rated value 	265 A
	265 A
 up to 400 V for current peak value n=20 rated value 	200 A
— up to 500 V for current peak value n=20 rated	265 A
value	20071
— 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	
— up to 230 V for current peak value n=30 rated	209 A
value	000 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	209 A
value	200
— up to 690 V for current peak value n=30 rated	209 A
value	
— up to 1000 V for current peak value n=30 rated	209 A
value	
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 400 V rated value at 690 V rated value	115 A
operating power	
• at AC-3	
— at 230 V rated value	75 kW
— at 200 V rated value — at 400 V rated value	132 kW
— at 400 V rated value — at 500 V rated value	160 kW
	250 kW
— at 690 V rated value	
— 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 400 V rated value at 690 V rated value	112 kW
operating apparent power at AC-6a	I IZ NVV

• 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
• 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	450 000 V·A
value	
operating apparent power at AC-6a	
 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 	360 000 V·A
value	
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	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC	
rated value	23 26 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	Will Vallotol
• at 50 Hz	590 V·A
• at 60 Hz	590 V·A
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	
apparent noturing power of magnet con at AC	
• at 50 Hz	6.1 V·A
	6.1 V·A 6.1 V·A
• at 50 Hz	
at 50 Hz at 60 Hz	
at 50 Hz at 60 Hz inductive power factor with the holding power of the	
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 	6.1 V·A
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC 	0.9 0.9 700 W
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 	0.9 0.9
at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay	6.1 V·A 0.9 0.9 700 W 8.2 W
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC 	6.1 V·A 0.9 0.9 700 W 8.2 W 30 95 ms
at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC	6.1 V·A 0.9 0.9 700 W 8.2 W
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay 	0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at AC 	0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms
 at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay 	0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms

control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
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	
 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
• side-by-side modifiing	
height	210 mm
	210 mm 145 mm
height	
height width	145 mm

— 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	10 111111
	2F mm
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
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
type of connectable conductor cross-sections	
at AWG cables for main contacts	2/0 500 kcmil
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
finely stranded with core end processing	0.5 2.5 mm²
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 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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 acc. to IEC 60947-4-1	Yes
product function positively driven operation acc. to IEC 60947-5-1	No
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. 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	EMC
General Froduct Approval	EIVIC







<u>KC</u>





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





Confirmation

Miscellaneous

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=3RT1265-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1265-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AB36

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

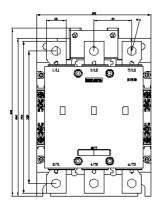
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AB36&lang=en

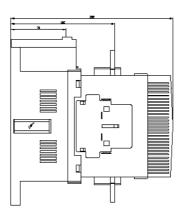
Characteristic: Tripping characteristics, I2t, Let-through current

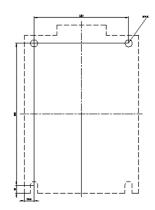
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AB36/char

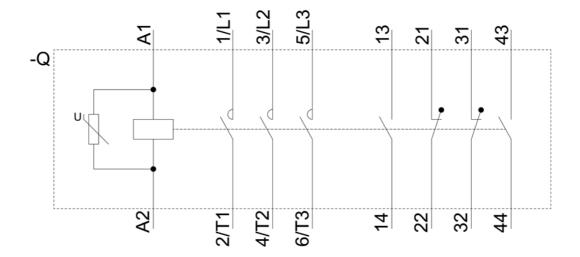
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AB36&objecttype=14&gridview=view1









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