SIEMENS

Data sheet 3RT1265-6AR36



vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional

product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12
Seneral 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
 at AC in hot operating state per pole 	12 W
 without load current share typical 	8.2 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	500 V
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 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 (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 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	
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 value at AC-1 	330 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ 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	005.4
— 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 valueat AC-6a	230 A
 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
rated value 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

4.500.14	400 1114
— 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 AO-Z maximum	250 1/11
• at AC-3 maximum	750 1/h
• at AC-3 maximum	750 1/h
at AC-3 maximumat AC-3e maximumat AC-4 maximum	750 1/h 750 1/h
 at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	750 1/h 750 1/h 250 1/h
 at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage	750 1/h 750 1/h
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	750 1/h 750 1/h 250 1/h AC/DC
 at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 	750 1/h 750 1/h 250 1/h AC/DC 440 480 V
 at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 	750 1/h 750 1/h 250 1/h AC/DC
at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated value operating range factor control supply voltage rated	750 1/h 750 1/h 250 1/h AC/DC 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V
at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated 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	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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	750 1/h 750 1/h 250 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated value operating range factor control supply voltage rated value of magnet coil at DC initial value af ulli-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	750 1/h 750 1/h 250 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated value operating range factor control supply voltage rated value of magnet coil at DC initial value af ull-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	750 1/h 750 1/h 250 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated value operating range factor control supply voltage rated value of magnet coil at DC initial value af ull-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz inductive power factor with closing power of the coil	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC arated value operating range factor control supply voltage rated value of magnet coil at DC initial value af ull-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 inductive power factor with closing power of the coil at 50 Hz	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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 inductive power factor with closing power of the coil at 50 Hz at 60 Hz	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA
 at AC-3 maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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 at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz 	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9
at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage at DC 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 inductive power factor with closing power of the coil at 50 Hz at 60 Hz	750 1/h 750 1/h 250 1/h AC/DC 440 480 V 440 480 V 440 480 V 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA

inductive power factor with the holding power of the coil	
• at 50 Hz	0.0
	0.9 0.9
• at 60 Hz	
closing power of magnet coil at DC	700 W
holding power of magnet coil at DC	8.2 W
closing delay	00 05
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	40
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	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	- 1.2
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
yielded mechanical performance [hp]	L74 /\
• for 3-phase AC motor	
— at 200/208 V rated value	75 hn
— at 220/230 V rated value — at 220/230 V rated value	75 hp 100 hp
— at 460/480 V rated value	200 hp
— at 460/480 V rated value — at 575/600 V rated value	·
contact rating of auxiliary contacts according to UL	250 hp A600 / Q600
	7000 / Q000
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	O 500 A (000 V 400 LA)
— 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	30. 1071(000 t, 110 t)
•	

nstallation/ mounting/ dimensions	1/ 00 F0 matation managing.
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
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— dpwards — downwards	10 mm
— at the side	10 mm
Connections/ Terminals	10 11111
type of electrical connection	Connection has
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	70 240 mm²
• 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	5.5 2.0 Hill
• for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
solid solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 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 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	2^ (20 10), 2^ (10 1+), 1\(\lambda\) 12
section	
for auxiliary contacts	18 14
Safety related data	
product function	
•	Voc
mirror contact according to IEC 60947-4-1 positively driven energing to IEC 60047.	Yes
 positively driven operation according to IEC 60947- 5-1 	No
protection class IP on the front according to IEC	IP00; IP20 with box terminal/cover
60529	33, ii 20 mili 30/ tommulovoi

suitability for use

• safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



|--|



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other











Confirmation

other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Special Test Certificate</u>

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=3RT1265-6AR36

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

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AR36\&lang=en}}$

Characteristic: Tripping characteristics, I²t, 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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