SIEMENS

Data sheet 3RT1275-6AR36



vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional

product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12
General technical data	
size of contactor	S12
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 	63 W
 at AC in hot operating state per pole 	21 W
 without load current share typical 	10 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	
	3
number of poles for main current circuit number of NO contacts for main contacts	3
	3
operating voltage	1 000 V
at AC-3 rated value maximum	
at AC-3e rated value maximum	1 000 V
operational current	610 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	010 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	610 A
rated value	
— up to 690 V at ambient temperature 60 °C	550 A
rated value	
— up to 1000 V at ambient temperature 40 °C	610 A
rated value	7570 A
— up to 1000 V at ambient temperature 60 °C rated value	550 A
• at AC-3	
at AC-3 — at 400 V rated value	400 A
— at 400 V rated value — at 500 V rated value	400 A 400 A
— at 500 V rated value — at 690 V rated value	400 A 400 A
— at 1000 V rated value	400 A
• at AC-3e	400 A
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	400 A
at AC-4 at 400 V rated value	350 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	400 A
	400 A
 up to 400 V for current peak value n=20 rated value 	400 A
— up to 500 V for current peak value n=20 rated	400 A
value	
— up to 690 V for current peak value n=20 rated	400 A
value	
— up to 1000 V for current peak value n=20 rated	400 A
value	
• at AC-6a	000 A
 up to 230 V for current peak value n=30 rated value 	293 A
up to 400 V for current peak value n=30 rated	293 A
value	2007.
— up to 500 V for current peak value n=30 rated	293 A
value	
up to 690 V for current peak value n=30 rated	293 A
value	
— up to 1000 V for current peak value n=30 rated	293 A
value	270 mass 2
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	175 A
at 690 V rated value	175 A
operating power	
• at AC-3	
— at 230 V rated value	132 kW

at 500 V rated value at 1000 V rated value at 200 V rated value at 500 V rated value at 1000 V rated value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value value 20 rated value at 1000 V rated value at 1000 V rated value 20 rated value at 1000 V r		
	— at 500 V rated value	250 kW
■ at 230 V rated value	— at 690 V rated value	400 kW
	— at 1000 V rated value	560 kW
	• at AC-3e	
	— at 230 V rated value	132 kW
	— at 400 V rated value	200 kW
	— at 500 V rated value	250 kW
Seb kW Separating power for approx. 200000 operating cycles AC-4 at 400 V rated value 98 kW at 500 V rated value 172 kW operating apparent power at AC-6a up to 290 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value at AC-1 maximum 250 Ifh at AC-2 maximum 250 Ifh at AC-3 maximum 250 Ifh at AC-4 maximum 250 Ifh at AC-5 maximum 250 Ifh at BO Hz rated value 440 480 V at 80 Hz rated value 440 480 V at 80 Hz rated value 440 480 V at 80 Hz 44		
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150 000 kVA		
■ up to 200 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 1000 V for current peak value n=20 rated value ■ up to 230 V for current peak value n=30 rated value ■ up to 230 V for current peak value n=30 rated value ■ up to 230 V for current peak value n=30 rated value ■ up to 400 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated v		I/Z NVV
		150 000 kVA
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up to 1000 V for current peak value n=20 rated value		
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up to 400 V for current peak value n=30 rated value 200 000 VA 200 VA	operating apparent power at AC-6a	
■ up to 500 V for current peak value n=30 rated value ■ up to 690 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value ■ up to 1000 V for current peak value n=30 rated value no-load switching frequency ■ at AC ■ at DC 2 000 1/h ■ at AC-3 maximum ■ at AC-2 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at AC-5 maximum ■ at AC-1 maximum ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-2 maximum ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-2 maximum ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-1 maximum	 up to 230 V for current peak value n=30 rated value 	110 000 VA
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• up to 1000 V for current peak value n=30 rated value no-load switching frequency • at AC • at DC 2 000 1/h coperating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-2 maximum • at AC-3 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at 50 Hz		350 000 VA
■ at DC	• up to 1000 V for current peak value n=30 rated	500 000 VA
■ at DC	no-load switching frequency	
operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 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 • at 60 Hz rated value • at 60 Hz angue suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz		2 000 1/h
operating frequency at AC-1 maximum 700 1/h at AC-2 maximum 250 1/h at AC-3 maximum 750 1/h at AC-3 maximum 750 1/h at AC-4 maximum 250 1/h AC/DC type of voltage of the control supply voltage Control supply voltage at AC at 50 Hz rated value 440 480 V control supply voltage at DC 440 480 V control supply voltage at DC 440 480 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 initial value 0.8 full-scale value 1.1 operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 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 830 VA at 50 Hz 830 VA at 60 Hz 830 VA at 60 Hz 0.9 at 60 Hz 0.9 at 60 Hz		2 000 1/h
at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 e maximum at AC-3 e maximum at AC-4 maximum		
at AC-2 maximum at AC-3 maxim		700 1/h
at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-3e maximum at AC-4e maximum at AC-5e The 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 arted value operating range factor control supply voltage rated value of magnet coil at DC a initial value af 50 Hz at 60 Hz apparent pick-up ower factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 60 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz agparent holding power of magnet coil at AC at 50 Hz at 60 Hz		
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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 operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 60 Hz a		
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value of magnet coil at DC • initial value • full-scale value • full-scale value • full-scale value • to Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz	rated value	440 480 V
• full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz oat 50 Hz at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 60 Hz 9.2 VA		
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 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 • at 60 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz 9.9	• initial value	0.8
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 • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz 9.2 VA	• full-scale value	1.1
 at 50 Hz at 60 Hz 0.8 1.1 design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 50 Hz 9.9 at 50 Hz 9.9 at 50 Hz 9.2 VA 		
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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 0.9 apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz 9.2 VA		with varistor
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at 60 Hz Inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz 9.2 VA		830 VA
inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.9 apparent holding power of magnet coil at AC • at 50 Hz 9.2 VA		
• at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz 9.2 VA		000 471
• at 60 Hz		0.0
apparent holding power of magnet coil at AC		
• at 50 Hz 9.2 VA		0.9
	apparent holding power of magnet coil at AC	
● at 60 Hz	. 50.11	0.01/4

inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
	920 W
closing power of magnet coil at DC holding power of magnet coil at DC	10 W
	10 VV
closing delay • at AC	45 100 ms
511.15	
• at DC	45 100 ms
opening delay	60 100 ms
• at AC	
• at DC	60 100 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 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	0.1071
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 at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 220 V rated value at 600 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	361 A
at 600 V rated value	382 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 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: 800 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)

nstallation/ mounting/ dimensions mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted
mounting position	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	214 mm
width	160 mm
depth	225 mm
required spacing	220 11111
with side-by-side mounting	
— forwards	20 mm
	10 mm
— upwards	10 mm
— downwards	
— 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
onnections/ Terminals	
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
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	0/0 500 / 1/
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main	
contacts	70 240 mm ²
stranded connectable conductor cross section for auxiliary.	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	0.0 2.0 Hilli
for auxiliary contacts	
•	2v (0.5 1.5 mm²) 2v (0.75 2.5 mm²) may 2v (0.75 4 mm²)
— 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
afety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
	No
 positively driven operation according to IEC 60947- 5-1 	
	IP00; IP20 with box terminal/cover

suitability for use

• safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval















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







Confirmation

Confirmation

Miscellaneous

Railway

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=3RT1275-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1275-6AR36

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AR36

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

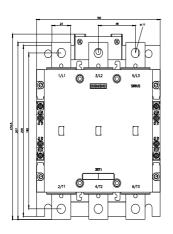
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1275-6AR36\&lang=en}}$

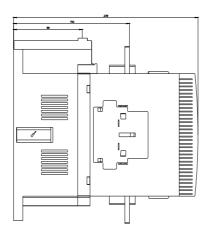
Characteristic: Tripping characteristics, I²t, Let-through current

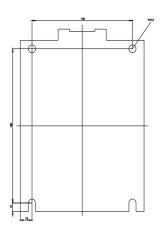
https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AR36/char

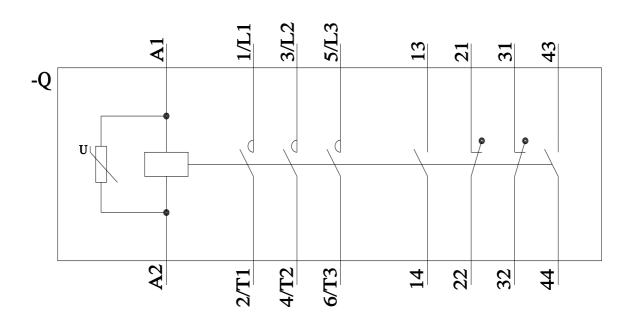
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1275-6AR36&objecttype=14&gridview=view1









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