SIEMENS

Data sheet 3RT1275-6AU36



vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 240-277 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

Section Sect	relative humidity minimum	10 %
maximum Main circuit number of Doles for main current circuit 3 number of No Contacts for main current 1 000 V **at AC-5 rated value maximum 1 000 V **operating voltage **at AC-5 rated value maximum 1 000 V **operational current **at AC-1 400 V at ambient temperature 40 °C rated value **at AC-1 400 V at ambient temperature 80 °C rated value -**up to 560 V at ambient temperature 80 °C -**crited value -**up to 100 V or ambient temperature 80 °C -**crited value -**up to 100 V or ambient temperature 80 °C -**crited value -**up to 100 V or ambient temperature 80 °C -**crited value -**up to 100 V at ambient temperature 80 °C -**crited value -**at AC-3 -*		
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value • at AC-6a — 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 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 — up to 1000 V for current peak value n=30 rated value — up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 175 A • at 690 V rated value • at AC-3 — at 230 V rated value 132 kW	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 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 minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value operating power • at AC-3 - at 230 V rated value 132 kW	value	400 A
value - 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 minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value 132 kW	— up to 230 V for current peak value n=30 rated	293 A
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 minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value 132 kW		293 A
value — up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value 132 kW	value	
value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value 132 kW	value	
rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value 132 kW	value	
e at 400 V rated value ■ at 690 V rated value ■ at 690 V rated value 175 A operating power ■ at AC-3 — at 230 V rated value 132 kW	rated value	370 HHII
 at 400 V rated value at 690 V rated value operating power at AC-3 at 230 V rated value 175 A 175 A 175 A<!--</td--><td></td><td></td>		
operating power ● at AC-3 — at 230 V rated value 132 kW	-	175 A
at AC-3 — at 230 V rated value 132 kW	• at 690 V rated value	175 A
— at 400 V rated value 200 kW	— at 230 V rated value	132 kW
	— at 400 V rated value	200 kW

 at 500 V rated value 	
— at 500 v rated value	250 kW
— 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
— at 690 V rated value	400 kW
— at 1000 V rated value	560 kW
operating power for approx. 200000 operating cycles	OOO KVV
at AC-4	
at 400 V rated value	98 kW
at 690 V rated value	172 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	150 000 kVA
up to 400 V for current peak value n=20 rated value	270 000 VA
• up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
 up to 1000 V for current peak value n=20 rated value 	690 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	110 000 VA
 up to 400 V for current peak value n=30 rated value 	200 000 VA
 up to 500 V for current peak value n=30 rated value 	250 000 VA 250 000 VA
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	350 000 VA
	500 000 VA 500 000 VA
 up to 1000 V for current peak value n=30 rated value 	300 000 VA
no-load switching frequency	
• at AC	2 000 1/h
• at DC	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-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	10.70
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
	240 277 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	240 277 V 240 277 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage at DC	240 277 V
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage at DC • rated value	
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	240 277 V
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	240 277 V 240 277 V
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	240 277 V 240 277 V
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	240 277 V 240 277 V
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	240 277 V 240 277 V 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA
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 50 Hz • at 60 Hz • at 60 Hz inductive power factor with closing power of the coil	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA
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	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA 0.9
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 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA 0.9
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 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz at 60 Hz at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz	240 277 V 240 277 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 830 VA 830 VA 0.9 0.9

inductive person feeten with the helding person of the	
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
• 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	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.107
at 24 V rated value	10 A
at 48 V rated value	2 A
at 40 V rated value 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 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
 positively driven operation according to IEC 60947- 	No
5-1	
	IP00; IP20 with box terminal/cover

suitability for use

safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval

EMC



Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



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=3RT1275-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1275-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AU36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1275-6AU36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AU36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1275-6AU36&objecttype=14&gridview=view1

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