SIEMENS

Data sheet 3RT1275-6AB36



Vacuum contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, 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			
• per pole	21 W			
power loss [W] for rated value of the current without load current share typical	10 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 	610 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	610 A
 up to 690 V at ambient temperature 60 °C rated value 	550 A
— up to 1000 V at ambient temperature 40 °C rated value	610 A
— up to 1000 V at ambient temperature 60 °C rated value• at AC-3	550 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
 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 value	400 A
— up to 690 V for current peak value n=20 rated value	400 A 400 A
 up to 1000 V for current peak value n=20 rated value at AC-6a 	400 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 value 	293 A
— up to 500 V for current peak value n=30 rated value	293 A
— up to 690 V for current peak value n=30 rated value	293 A
— up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	293 A - 370 mm²
rated value 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 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 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 kV·A
• up to 400 V for current peak value n=20 rated value	270 000 V·A
 up to 500 V for current peak value n=20 rated value 	340 000 V·A

value • up to 230 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 1500 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 • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-8 maximum • at AC-8 maximum • at AC-9 to 1000 to	 up to 690 V for current peak value n=20 rated value 	470 000 V·A
Operating apparent power at AC-Sa	 up to 1000 V for current peak value n=20 rated 	690 000 V·A
10 000 V A 10	value	
■ up to 400 V for current peak value = 30 rated value ■ up to 500 V for current peak value = 30 rated value ■ up to 500 V for current peak value = 30 rated value ■ up to 500 V for current peak value = 30 rated value ■ up to 500 V for current peak value = 30 rated value ■ value	operating apparent power at AC-6a	
	 up to 230 V for current peak value n=30 rated value 	110 000 V·A
	 up to 400 V for current peak value n=30 rated value 	200 000 V·A
• up to 1000 V for current peak value n=30 rated value no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at BO Hz rated value • at 80 Hz ra	 up to 500 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 no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at BO Hz rated value • at 80 Hz ra	 up to 690 V for current peak value n=30 rated value 	350 000 V·A
value		500 000 V·A
aid AC aid DC aid DC operating frequency aid AC-1 maximum aid AC-2 maximum aid AC-3 maximum aid AC-4 maximum aid Official AC-4 max	·	
	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 250 1/h at AC-3 maximum 250 1/h control circuit/ Control Type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 23 26 V at 60 Hz rated value control supply voltage at DC at ated value control supply voltage at DC at ated value control supply voltage at DC initial value full-scale 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 by AC at 60 Hz at 60 Hz at 60 Hz by AC at 60 Hz at 60 Hz by AC at 60 Hz at 60 Hz by AC at 60 Hz by AC at 60 Hz at 60 Hz by AC at 60 Hz by AC at 60 Hz at 60 Hz by AC at 60 H	• at AC	2 000 1/h
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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 • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive 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 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power of magnet coil at DC olsing power of magnet coil at DC closing delay • at AC • at DC • at	full-scale value	1.1
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 • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz inductive 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 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power of magnet coil at DC olsing power of magnet coil at DC closing delay • at AC • at DC • at		
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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 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay • at AC • at DC • at DC • at DC • at DC arcing time control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact	● at 60 Hz	0.8 1.1
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apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding 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 Closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at AC • at DC		
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inductive power factor with the holding power of the coil at 50 Hz at 60 Hz o.9 at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC opening delay at AC at DC		
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 tolosing delay ■ at AC ■ at DC ■ at DC opening delay ■ at AC ■ at DC ■	● at 50 Hz	9.2 V·A
coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tosing delay at AC at DC opening delay at AC at DC ot AC o	• at 60 Hz	9.2 V·A
 at 50 Hz at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC 10 W closing delay at AC at DC at DC opening delay at AC at AC at DC opening delay at AC at DC at		
at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay		
closing power of magnet coil at DC holding power of magnet coil at DC 10 W closing delay • at AC • at DC • at AC • at AC • at DC		0.9
holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at AC at DC opening delay at AC at DC ot AC at DC ot AC at AC	• at 60 Hz	0.9
closing delay	closing power of magnet coil at DC	920 W
closing delay	holding power of magnet coil at DC	10 W
 at AC at DC 45 100 ms opening delay at AC at DC at DC at DC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 2		
● at DC opening delay ● at AC • at DC • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact 45 100 ms 60 100 ms 60 100 ms 70 15 ms Standard A1 - A2 Auxiliary circuit 2		45 100 ms
opening delay		
 at AC at DC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 		
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Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 2		
number of NC contacts for auxiliary contacts 2 instantaneous contact		Standard A1 - A2
instantaneous contact	Auxiliary circuit	
number of NO contacts for auxiliary contacts 2		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. ^			
at 400 V rated value	6 A			
	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	40 A			
	10 A			
at 48 V rated valueat 60 V rated value	6 A 6 A			
at 110 V rated value	3 A 2 A			
at 125 V rated value at 220 V rated value	1 A			
at 220 V rated value				
at 600 V rated value	0.15 A			
operational current at DC-13	40.4			
at 24 V rated value at 49 V rated value	10 A			
at 48 V rated value at 60 V rated value	2 A			
at 60 V rated value at 110 V rated value	2 A			
at 110 V rated value at 125 V rated value	1 A			
at 125 V rated value at 220 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	224.4			
• at 480 V rated value	361 A			
• at 600 V rated value	382 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor	4051			
— 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	V, 50 kA) gG: 10 A (500 V, 1 kA)			
required	90. 10 A (000 V, 1 M)			
Installation/ mounting/ dimensions				
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted			
- V r	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				
 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			

Certificates/ approvals			Functional		
safety-related switching OFF	Yes				
suitability for use					
touch protection on the front acc. to IEC 60529	finger-safe, for vertical conta	ct from the front with be	ox terminal/cover		
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal	/cover			
product function positively driven operation acc. to IEC 60947-5-1	No				
product function mirror contact acc. to IEC 60947-4-1	Yes				
Safety related data					
for auxiliary contacts	18 14				
AWG number as coded connectable conductor cross section					
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				
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75		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 mm²				
 solid or stranded 	0.5 4 mm²				
contacts					
connectable conductor cross-section for auxiliary	/ U 240				
contacts • stranded	70 240 mm²				
connectable conductor cross-section for main	2/0 500 RGHIII				
at AWG cables for main contacts	2/0 500 kcmil				
of magnet coil type of connectable conductor cross-sections	Screw-type terminals				
-	*1				
for auxiliary and control circuitat contactor for auxiliary contacts	screw-type terminals Screw-type terminals				
	Connection bar				
type of electrical connection • for main current circuit	Connection har				
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					
— downwards	10 mm				
— at the side	10 mm				











Type Examination Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping

UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report





other Railway

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

<u>ate</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=3RT1275-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1275-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AB36

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

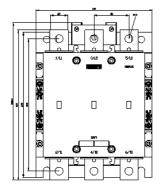
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1275-6AB36&lang=en

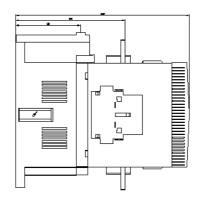
Characteristic: Tripping characteristics, I2t, Let-through current

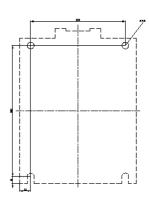
https://support.industry.siemens.com/cs/ww/en/ps/3RT1275-6AB36/char

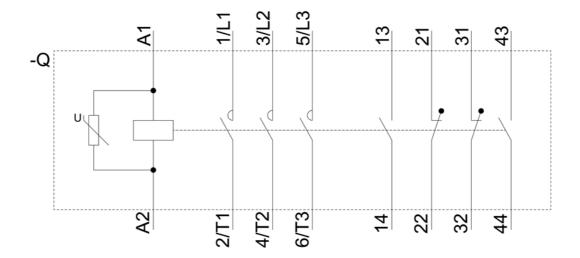
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1275-6AB36&objecttype=14&gridview=view1









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