SIEMENS

Data sheet

3RT1266-6AU36



vacuum contactor AC-3e/AC-3 300 A, 160 kW / 400 V, 3-pole, Uc: 240-277 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS		
product designation	Vacuum contactor		
product type designation	3RT12		
General technical data			
size of contactor	\$10		
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 	42 W		
 at AC in hot operating state per pole 	14 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 protective separation 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 (operating 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 %		

ain 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	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °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	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	300 A
— at 1000 V rated value	300 A
• at AC-4 at 400 V rated value	280 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated value 	300 A
 — up to 400 V for current peak value n=20 rated value 	300 A
 up to 500 V for current peak value n=20 rated value 	300 A
 — up to 690 V for current peak value n=20 rated value 	300 A
— up to 1000 V for current peak value n=20 rated value	300 A
• at AC-6a	
— 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 — up to 1000 V for current peak value n=30 rated value 	209 A 209 A
ninimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	140 A
• at 690 V rated value	140 A
operating power	
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	400 kW
• at AC-3e	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	400 kW
operating power for approx. 200000 operating cycles at AC-	

 at 400 V rated value 	79 kW
at 690 V rated value	138 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	120 000 kVA
 up to 400 V for current peak value n=20 rated value 	200 000 VA
 up to 500 V for current peak value n=20 rated value 	260 000 VA
 up to 690 V for current peak value n=20 rated value 	350 000 VA
 up to 1000 V for current peak value n=20 rated value 	520 000 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 AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	
• at AC-4 maximum Control circuit/ Control	250 1/h
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	240 277 V
at 60 Hz rated value	240 277 V
control supply voltage at DC	
rated value	240 277 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	
• at 50 Hz	590 VA
• at 60 Hz	590 VA
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	
• at 50 Hz	6.1 VA
• at 60 Hz	6.1 VA
inductive power factor with the holding power of the coil	0.0
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	700 W
holding power of magnet coil at DC	8.2 W
closing delay	
• at AC	30 95 ms
• at AC • at DC	30 95 ms 30 95 ms
• at AC	
• at AC • at DC	30 95 ms 40 80 ms
at AC at DC opening delay	30 95 ms
at AC at DC opening delay at AC	30 95 ms 40 80 ms

Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	2		
contact	2		
number of NO contacts for auxiliary contacts instantaneous	2		
contact			
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	302 A		
at 600 V rated value	289 A		
yielded mechanical performance [hp]			
• for 3-phase AC motor			
— at 200/208 V rated value	100 hp		
- at 220/230 V rated value	125 hp		
- at 460/480 V rated value	250 hp		
— at 575/600 V rated value	300 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			
 for short-circuit protection of the main circuit — with type of coordination 1 required 	aG: 500 A (690 V 100 KA)		
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50		
- 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		
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 			

- unusual 10 mm - at the sole 10 mm - at the sole 10 mm - or voor width 10 mm - unvoor width 0 mm - unvoor width 0 mm - or width 0 mm <tr< th=""><th>— forwards</th><th>20 mm</th></tr<>	— forwards	20 mm				
• for low parts • for wants • downwards • do						
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• stranded 70 240 mm³ • elocitor cross-section for auxiliary contacts 0.5 4 mm³ • or auxiliary contacts 0.5 25 mm³. • or auxiliary contacts - solid • - solid - solid or stranded • - solid - solid or stranded • - solid or stranded - solid or stranded • - solid or stranded - solid or stranded • or auxiliary contacts - solid - solid or auxiliary contacts • or auxiliary contacts - solid - solid - solid or auxiliary contacts • or auxiliary contacts - solid - s	number of holes	1				
connectable conductor cross-section for auxiliary contacts 0.5 4 mm ² • olid or stranded 0.5 4 mm ² • freigistrandar with core end processing 0.5 4 mm ² • or auxiliary contacts - solid • solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max 2x (0.75 4 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max 2x (0.75 4 mm ²) • or auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max 2x (0.75 4 mm ²) • or auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • or auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • or auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • or auxiliary contacts 18 14 Safety related data 19 14 protection cates according to IEC 60947-5-1 No 1 value for proof test interval or service life according to IEC 60529 IPO0 (IPO with box terminal/cover stability for use • safety-related with oor end processage e 4 mm ² • safety-related switching OFF Yes Ves Centeral Product Approval Confirmation KC EMC Functional chinery Confirmation Cer: ficate Confi	connectable conductor cross-section for main contacts					
 esclid or stranded e. Indry stranded with core end processing b. S 4 mm⁴ 0. S 2. 5 mm³ e cold e cold or stranded e cold connectable conductor cross e cold connectable c	stranded	70 240 mm²				
• finely stranded with core and processing 0.52.5 mm ³ Ype of connectable conductor cross-sections • solid • a solid - solid • a solid or stranded - (0.51.5 mm ³), 2x (0.752.5 mm ³), max. 2x (0.754 mm ³), 2x (0.752.5 mm ³), max. 2x (0.754 mm ³), 2x (0.51.5 mm ³), 2x (0.752.5 mm ³), max. 2x (0.754 mm ³), 2x (0.51.5 mm ³), 2x (0.51.5 mm ³), 2x (0.752.5 mm ³), max. 2x (0.754 mm ³), 2x (0.51.5 mm ³), 2x (0.752.5 mm ³), max. 2x (0.754 mm ³), 2x (0.51.5 mm ³), 2x (0.54 mm ³), 2x (0.54 mm ³), 2x (0.54 mm ³), 2x (0.51.5 mm ³), 2x (0.54 mm ³	connectable conductor cross-section for auxiliary contacts					
type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core and processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts Bately related data product function • on the front according to IEC 60947-5-1 No 20 a Bately related data product function • on the front according to IEC 60947-5-1 No 21 value for proof test interval or service life according to IEC 60947-5-1 No 20 a Bately related witching OFF velse is asety-related switching OFF Yes Confirmation estify/slately of Ma- estery/slately of Ma- Chinesy Micrate Statey/slately of Ma- Chinesy Micrate Statey/slately of Ma-	 solid or stranded 	0.5 4 mm²				
• for auxiliary contacts - solid 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • a solid or stranded - fnely stranded with core end processing - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 15 mm ³ , 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ⁹) • for auxiliary contacts - 16 mm ³ • for auxiliary contacts - 16 mm ³ • for auxiliary contacts - 16 mm ³ • positively driven operation according to IEC 60529 - 1900 (IP20 with box terminal/cover • ately related auxiliary contacts	 finely stranded with core end processing 	0.5 2.5 mm²				
 - solid - solid or standed - solid or sullary contacts - solid - solid or s	type of connectable conductor cross-sections					
	 for auxiliary contacts 					
- finely stranded with core end processing 2x (0.51.5 mm ²), 2x (0.752.5 mm ²) • for AWG cables for auxiliary contacts 2x (0.51.5 mm ²), 2x (1814), 1x 12 • for auxiliary contacts 1814 • for auxiliary contacts 1814 • for auxiliary contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No 1 value for proof test interval or service life according to IEC 60529 IPO0; IP20 with box terminal/cover 1 value for totat conding to IEC 60529 IPO0; IP20 with box terminal/cover 1 subtively driven operation according to IEC 60529 IPO0; IP20 with box terminal/cover subtibility for use Ves • safety-related switching OFF Ves Confirmation Confirmation Secc Ves Confirmation Safety/Safety of Maching Seco Exc Ves Confirmation Safety/Safety of Maching Declaration of Conformity Safety/Safety of Maching Cer Safety/Safety of Maching Safety/Safety of Maching EMC Functional Safety/Safety of Maching Cer Safety/Safety of Maching Safety/Safety of Maching Cer Bifcate Ves Safety/Safet	— solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)				
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section 18 14 • for auxiliary contacts 18 14 Statey related data 18 14 Product function 18 14 • positively driven operation according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover fouch protection on the front according to IEC 60529 IP00; IP20 with box terminal/cover stately-related switching OFF Yes Cortificates/ approval Yes Confirmation Efficience Weight Stately of Machinery Declaration of Conformity Efficience Stately/Stately of Machinery chinery Declaration of Conformity Test Certificates Special Test Certific- ates Test Report Efficience Special Test Certific- ates Test Report	— solid or stranded					
AWG number as coded connectable conductor cross section 18 14 Safety related data Image: conduct function Product function • mirror contact according to IEC 60947-5-1 No 20 a T1 value for pool test interval or service life according to IEC 60529 IPO0; IP20 with box terminal/cover protection class IP on the front according to IEC 60529 IPO0; IP20 with box terminal/cover touch protection on the front according to IEC 60529 IPO0; IP20 with box terminal/cover suitability for use • safety-related switching OFF Yes Certificates/ approvals Yes Effect Certificates/ approvals Confirmation KC Effect EMC Functional Safety/Safety of Ma- chinory Declaration of Conformity Test Certificates EMC Functional Safety/Safety of Ma- chinory Effect Special Test Certific ate Type Test Certific- ate Effect If call Effect Special Test Certific- ate Type Test Certific- ate Type Test Certific- ate	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
section 16 14 Section 18 14 Section number of auxiliary contacts product function number of according to IEC 60947-5-1 1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IPO0; IP20 with box terminal/cover tuch protection on the front according to IEC 60529 IPO0; IP20 with box terminal/cover suitability for use	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12				
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Marine / Shipping other		UK Special Test Certific- ate <u>ates/Test Report</u>				
	Marine / Shipping	other				

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other		Railway		
Confirmation	Miscellaneous	Vibration and Shock	Special Test Certific-	
			ate	

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1266-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1266-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1266-6AU36

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

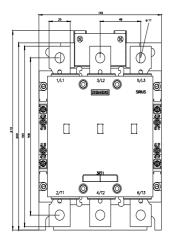
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1266-6AU36&lang=en

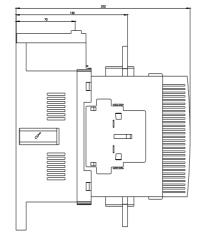
Characteristic: Tripping characteristics, I²t, Let-through current

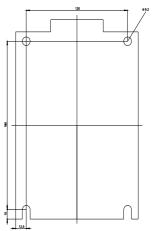
https://support.industry.siemens.com/cs/ww/en/ps/3RT1266-6AU36/char

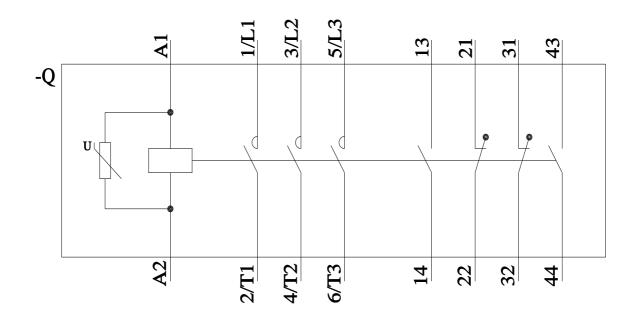
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1266-6AU36&objecttype=14&gridview=view1









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