SIEMENS

Data sheet 3RT1466-6AU36



power contactor AC-1 400 A / 690 V / 40 $^{\circ}$ C 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	Contactor
product type designation	3RT14
General 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 	105.6 W
 at AC in hot operating state per pole 	35.2 W
 without load current share typical 	7.4 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
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 %
Main circuit	
number of poles for main current circuit	3

number of NC contacts for main contacts 0 type of voltage for main current circuit AC et al. AC-1 40 b 500 V at ambient temperature 40 °C rated value 400 A - up to 500 V at ambient temperature 50 °C rated value 380 A - up to 500 V at ambient temperature 50 °C rated value 380 A - up to 500 V at ambient temperature 50 °C rated value 380 A - up to 500 V at ambient temperature 50 °C rated value 138 A - up to 500 V at ambient temperature 50 °C rated value 138 A - up to 500 V at ambient temperature 50 °C rated value 138 A - up to 500 V at ambient temperature 50 °C rated value 138 A - up to 500 V at ambient temperature 50 °C rated value 240 mm² - up to 500 V at ambient temperature 50 °C rated value 240 mm² - up to 500 V at ambient temperature 50 °C rated value 250 mm² - up to 500 V at ambient temperature 50 °C rated value 250 mm² - up to 500 V at ambient temperature 50 °C rated value 250 mm² - up to 500 V at ambient temperature 50 °C rated value 250 mm² - up to 500 V at ambient temperature 50 °C rated value ACDC - up to 500 V at ambient temperature 50 °C rated value ACDC		
Special Control Current		
operational current		0
• at AC-1	type of voltage for main current circuit	AC
— µp to 890 V at ambient temperature 40 °C rated value	operational current	
walue walu	• at AC-1	
A value A va		400 A
value valu		380 A
— at 400 V rated value 138 A minimum cross-section in main crout at maximum AC-1 rated value 240 nm² minimum cross-section in main crout at maximum AC-1 rated value 2000 1/h → at AC 2000 1/h → at DG 2000 1/h Operating frequency at AC-1 maximum 600 1/h Outroit-or-bit Control Very per Voltage Vipe of voltage of the control supply voltage AC/DC voltage of the control supply voltage AC/DC • at 50 Hz rated value 240 _ 277 V • at 60 Hz rated value 240 _ 277 V • rated value 0.8 • limital value 0.8 • limital value 0.8 • limital value 0.8 • limital value 0.8 • at 50 Hz 0.8 _ 1.1 • at 50 Hz 0.8 _ 1.1 • at 50 Hz 0.8 _ 1.1 • at 50 Hz 0.9 _ 1.1 design of the surge suppressor with variation • at maximum rated control supply voltage at AC 550 VA • at 80 Hz 590 VA apparent pick-up power 4 mi		380 A
— at 890 V rated value 388 A 240 mm² 320 mm²	• at AC-3	
Section Properties Control Section Properties Control Section	— at 400 V rated value	138 A
Indianum cross-section in main circuit at maximum AC-1 raided value Indianum cross-section in main circuit at maximum AC-1 raided value 2000 //h		138 A
* at AC		240 mm²
* at AC	no-load switching frequency	
		2 000 1/h
Operating frequency at AC-1 maximum 600 1/h		
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- at 60 Hz - at 50 Hz apparent pick-up power of magnet coil at AC	— at 60 Hz	490 VA
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- at 50 Hz - at 60 Hz • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 6.7 VA - at 60 Hz 6.7 VA apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil		
- at 60 Hz • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 6.7 VA apparent holding power of magnet coil at AC • at 50 Hz 6.7 VA inductive power factor with the holding power of the coil	***	
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apparent holding power of magnet coil at AC • at 50 Hz 6.7 VA inductive power factor with the holding power of the coil	— at 50 Hz	6.7 VA
• at 50 Hz 6.7 VA inductive power factor with the holding power of the coil	— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil		6.7.VA
		U.I VA
● at bu ⊓∠		0.0
	■ at 50 mZ	0.9

— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ 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
connectable conductor cross-section for main contacts	
 solid or stranded 	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 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— 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)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals	

Certificates/ approvals

General Product Approval

EMC



Confirmation









Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping





Confirmation

other

Miscellaneous

other

Confirmation Special Test Certificate

Railway

<u>ate</u>

Vibration and Shock

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

om/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=3RT1466-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AU3

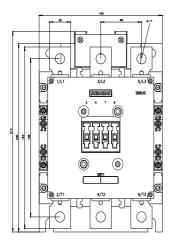
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AU36&lang=en

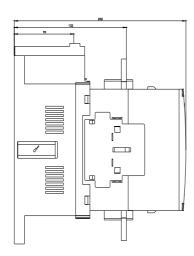
Characteristic: Tripping characteristics, I2t, Let-through current

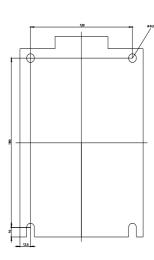
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AU36/char

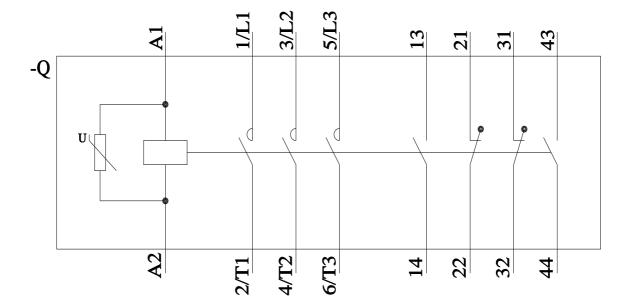
Further characteristics (e.g. electrical endurance, switching frequency)

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Mouser Electronics

Authorized Distributor

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Siemens:

3RT14666AU36