SIEMENS

Data sheet

3RT1466-6AP36



power contactor AC-1 400 A / 690 V / 40 $^\circ$ C 3-pole, Uc: 220-240 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 NO contacts for main contacts	3		
number of NC contacts for main contacts	0		
type of voltage for main current circuit	AC		
operational current			
• at AC-1			
— up to 690 V at ambient temperature 40 °C rated value	400 A		
— up to 690 V at ambient temperature 55 °C rated value	380 A		
— up to 690 V at ambient temperature 60 $^\circ \mathrm{C}$ rated value	380 A		
• at AC-3			
— at 400 V rated value	138 A		
— at 690 V rated value	138 A		
minimum cross-section in main circuit at maximum AC-1 rated value	240 mm ²		
no-load switching frequency			
• at AC	2 000 1/h		
• at DC	2 000 1/h		
operating frequency at AC-1 maximum	600 1/h		
Control circuit/ Control			
type of voltage	AC/DC		
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC			
• at 50 Hz rated value	220 240 V		
• at 60 Hz rated value	220 240 V		
control supply voltage at DC			
rated value	220 240 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			
 at minimum rated control supply voltage at AC 			
— at 50 Hz	490 VA		
— at 60 Hz	490 VA		
 at maximum rated control supply voltage at AC 			
— at 60 Hz	590 VA		
— at 50 Hz	590 VA		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	590 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.9		
apparent holding power			
 at minimum rated control supply voltage at DC 	6.1 VA		
 at maximum rated control supply voltage at DC 	7.4 VA		
apparent holding power			
at minimum rated control supply voltage at AC			
— at 50 Hz	5.6 VA		
— at 60 Hz	5.6 VA		
at maximum rated control supply voltage at AC			
— at 50 Hz	6.7 VA		
— 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			
● at 50 Hz	0.9		

	250.14			
closing power of magnet coil at DC	650 W			
holding power of magnet coil at DC	7.4 W			
closing delay				
• at AC	30 95 ms			
• at DC	30 95 ms			
opening delay				
• at AC	40 80 ms			
• at DC	40 80 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	2			
attachable	4			
 instantaneous contact 	2			
number of NO contacts for auxiliary contacts	2			
attachable	4			
 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-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	1A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.3 A 0.1 A gG: 10 A (230 V, 400 A)			
at 600 V rated value design of the miniature circuit breaker for short-circuit protection	0.1 A			
• at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)			
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	0.1 A gG: 10 A (230 V, 400 A)			
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA)			
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— forwards			20 mm			
— upwards		10 r				
— downwards		10 r				
— at the side Connections/ Terminals		10 r	nm			
		_	_	_		
type of electrical conn		0	<i>e</i> 1			
• for main current o			nection bar			
 for auxiliary and of 			w-type terminals			
at contactor for a	uxiliary contacts		ew-type terminals			
 of magnet coil 			Screw-type terminals			
width of connection ba	-		25 mm			
thickness of connection	on bar	6 m	6 mm			
diameter of holes		11 r	nm			
number of holes		1				
connectable conducto	or cross-section for main	contacts				
 solid or stranded 		70.	240 mm²			
 stranded 		70.	240 mm²			
connectable conducto	or cross-section for auxil	liary contacts				
 solid or stranded 		0.5	4 mm²			
 finely stranded w 	ith core end processing	0.5	2.5 mm²			
type of connectable co	onductor cross-sections					
 for auxiliary containing 	acts					
— solid		2x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm²), max. 2x (0.75	4 mm²)	
— solid or stra	nded	2x (0,5 1,5 mm²), 2x (0,75 .	4 mm²)		
- finely strand	ded with core end process	ing 2x (2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 for AWG cables f 	or auxiliary contacts	2x (2x (20 16), 2x (18 14), 1x 12			
Safety related data	,					
product function						
-	cording to IEC 60947-4-1	Yes				
	-					
protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover					minal/covor	
Certificates/ approvals	touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover					
					FNO	
General Product Appr	rovai				EMC	
(SP)	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Conform	mity	Test Certificates		Marine / Shipping	
<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping				other		
Lloyds Register urs	PRS	RMRS	DNV-GL DNV-GL	<u>Confirmation</u>	<u>Confirmation</u>	
other	Railway					
<u>Miscellaneous</u>	Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>				

Further information

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

 $\underline{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}$

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=3RT1466-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AP36

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

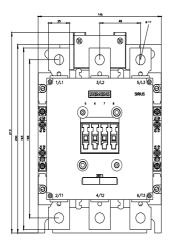
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AP36&lang=en

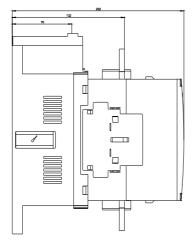
Characteristic: Tripping characteristics, I2t, Let-through current

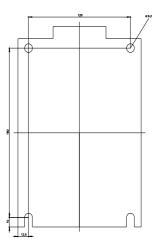
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AP36/char

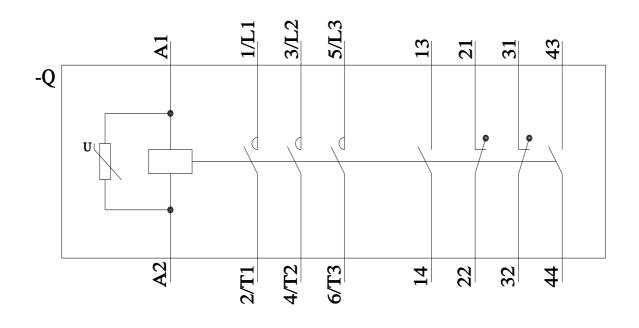
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6AP36&objecttype=14&gridview=view1









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