SIEMENS

Data sheet

3RT1466-6LA06



Contactor, AC-1, 400 A/690 V/40 $^\circ\text{C},$ S10, 3-pole, without operating mechanism, 2NO+2NC, connection bar/ 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
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 (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
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

number of NO contacts for main corrent circuit 3 number of NC contacts for main contacts 0 type of voltage for main current circuit AC • at AC-1	Main circuit	
number of NC contacts for main contacts 3 upper of valtage for main current circuit AC operational current AC up to 500 V at mainbient temperature 40 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at mainbient temperature 50 °C 300 A up to 500 V at at mainture 50 °C 300 · mp up to 500 °C 300 · mp		3
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type of voltage for main current circuit AC operational current AC - up to 500 V at ambient temperature 40 °C 400 A - rade voltabe 380 A - up to 500 V at ambient temperature 50 °C 380 A - rade voltabe 380 A - up to 500 V rate voltabe 380 A - at 400 V rated voltabe 138 A - at 400 V rated voltabe 2000 1/h - at 600 V rated voltabe 2000 1/h - at AC 40		
operational current current • al AC-1 400 A - up to 580 V at antibum temperature 55 °C 380 A - up to 680 V at antibum temperature 60 °C 380 A - al AOV raded value 138 A - al AOV raded value 138 A - al AOV raded value 280 A - al AOV raded value 138 A - al AOV raded value 280 A - al AOV raded value 280 mm² - al AOV raded value 280 mm² - al AOV raded value 2000 rh - al AOC 2000 rh - al AOC 2000 rh - al AC 3095 ms - al AC 3095 ms - al AC 4080 ms - al		-
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	— up to 690 V at ambient temperature 40 °C	400 A
	— up to 690 V at ambient temperature 55 °C	380 A
	— up to 690 V at ambient temperature 60 °C rated value	380 A
minimum cross-section in main circuit at maximum AC-1 rated value 240 mm² eit AC 2 000 1/h eit AC 2 000 1/h operating frequency at AC-1 maximum 600 1/h Colong delay 600 1/h eit AC 30 95 ms eit AC 30 95 ms eit AC 40 80 ms eit BC 40 80 ms arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Auxillary circuit 2 number of NC contacts for auxillary contacts 2 eittachable 4 eittachable		
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- with type of coordination 1 required gG: 500 A (690 V, 100 kA)		
- with type of coordination 1 required gG: 500 A (690 V, 100 kA)	• for short-circuit protection of the main circuit	
— with type of assignment 2 required gR: 500 A (690 V, 100 kA)	- with type of coordination 1 required	gG: 500 A (690 V, 100 kA)
	- with type of assignment 2 required	gR: 500 A (690 V, 100 kA)

\bullet for short-circuit protection of the auxiliary switch required

Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
side-by-side mounting	Yes		
height	210 mm		
width	145 mm		
depth	202 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		
— 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		
Connections/ Terminals			
type of electrical connection	Connection has		
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			
type of connectable conductor cross-sections	0/0 500 km/i		
at AWG cables for main contacts	2/0 500 kcmil		
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)		
 at 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-	No		
5-1 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			

General Product Ap	proval				EMC		
(SP)	<u>Confirmation</u>	CCC		EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Confe	ormity	Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping			other		Railway		
Lloyd's Register urs	PRS	RMRS RARS	<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate		
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=3RT1466-6LA06 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6LA06 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6LA06 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bildth/cax_de_aspx?mlfb=3RT1466-6LA06							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6LA06⟨=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6LA06/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6LA06&objecttype=14&gridview=view1							

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