SIEMENS

Data sheet

3RT1466-6NP36



Contactor, AC-1, 400 A/690 V/40 $^\circ$ C, S10, 3-pole, 200-277 V AC/DC, PLC-IN optional, with varistor, 2 NO+2 NC, Connection rail/ 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 	3.4 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 (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	95 %

number of No poles for main current circuit 3 number of No contacts for main contacts 3 number of No contacts for main contacts 0 /type of voltage for main current circuit AC operational surrent 4 - up to 600 V anabient temperature 40 °C 400 A - rated value 400 A - up to 600 V at mathent temperature 50 °C 300 A - rated value 380 A - at 600 V rated value 138 A - at 600 V rated value 138 A - at 600 V rated value 138 A - at 600 V rated value 1000 1/h - at 600 V rated value 1000 1/h - at 600 V rated value 1000 1/h - at 600 V rated value 240 mm² - at 600 V rated value 200	maximum	
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• at AC 45 80 ms • at DC 45 80 ms opening delay 5000000000000000000000000000000000000	holding power of magnet coil at DC	3.4 W
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• at AC 80 100 ms • at DC 80 100 ms arcing time 10 15 ms	• at DC	45 80 ms
• at DC 80 100 ms arcing time 10 15 ms	opening delay	
arcing time 10 15 ms	• at AC	80 100 ms
	• at DC	80 100 ms
control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable)	arcing time	10 15 ms
	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)

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	1A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 40 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	0.1 A
design of the miniature circuit breaker for short-circuit	
protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — 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)
a for abort aircuit protection of the auviliant awitch	gG: 10 A (500 V, 1 kA)
 for short-circuit protection of the auxiliary switch 	90. 107 (000 V, 1107)
required	
required Installation/ mounting/ dimensions	
required	with vertical mounting surface +/-90° rotatable, with vertical mounting
required Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth with side-by-side mounting forwards upwards downwards at the side forwards upwards forwards at the side 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth width side-by-side mounting forwards upwards downwards at the side for grounded parts upwards at the side forwards upwards downwards at the side forwards upwards downwards at the side downwards 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — for live parts — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 20 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards at the side downwards for live parts forwards upwards upwards upwards upwards 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards • upwards • downwards • for live parts — forwards • upwards • downwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards • for live parts — forwards • upwards • for live parts — forwards — upwards • downwards • for live parts — forwards — upwards — at the side — downwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards at the side for live parts forwards upwards at the side for live parts forwards upwards at the side 	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards • for live parts — forwards • upwards • for live parts — forwards — upwards • downwards • for live parts — forwards — upwards — at the side — downwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 20 mm 10 mm 10 mm 20 mm 10 mm
required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards at the side for live parts forwards upwards at the side for live parts forwards upwards at the side for live parts at the side for wards at the side forwards at the side for live parts at the side downwards at the side forwards at the side forwards forwards mathe side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm

	auxiliary contacts		Screw-type terminals			
of magnet coil width of connection bar			Screw-type terminals			
			25 mm			
thickness of connect	ction bar		6 mm			
diameter of holes			11 mm			
number of holes			1			
 type of connectable conductor cross-sections at AWG cables for main contacts 			2/0 500 kcmil			
connectable condu	ctor cross-section for m		2/0 500 KCIIII			
contacts			=0.040.0			
solid or stranded stranded			70 240 mm ²			
stranded connectable conductor cross section for auxiliary			70 240 mm²			
connectable conductor cross-section for auxiliary contacts						
solid or stranded			0.5 4 mm ²			
 finely stranded with core end processing 			0.5 2.5 mm²			
	conductor cross-sectio	ons				
 for auxiliary con 	ntacts					
— solid			2x (0.5 1.5 mm ²), 2x (0.75			
— solid or st			2x (0,5 1,5 mm²), 2x (0,75		(0,75 4 mm²)	
-	nded with core end proces	-	2x (0.5 1.5 mm²), 2x (0.75			
at AWG cables	for auxiliary contacts		2x (20 16), 2x (18 14), 7	1x 12		
Safety related data						
product function						
 mirror contact a 	according to IEC 60947-4-	-1	Yes			
	n operation according to I		No			
protection class IP 660529	on the front according to	o IEC	IP00; IP20 with box terminal	/cover		
touch protection on	the front according to I	EC 60529	finger-safe, for vertical conta	ct from the front with b	ox terminal/cover	
Certificates/ approva	-		3 ,			
					EMO	
General Product A	oprovai				EMC	
	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Machinery	Confirmation Declaration of Confor	ccc	UL UL Test Certificates	EAC	RCM	
Safety/Safety of		ccc rmity UK	Test Certificates Special Test Certificates	Effic Type Test Certific- ates/Test Report	Marine / Shipping	
Safety/Safety of Machinery <u>Type Examination</u>	Declaration of Confor	-	Special Test Certific-		Marine / Shipping	
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>	Declaration of Confor	-	Special Test Certific-	ates/Test Report	ABS	
Safety/Safety of Machinery <u>Type Examination</u> <u>Certificate</u>	Declaration of Confor	-	Special Test Certific-	ates/Test Report	Keellaneous	
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Declaration of Confor	-	Special Test Certific- ate	ates/Test Report	ABS	
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Declaration of Confor	-	Special Test Certific- ate	ates/Test Report	ABS	
Safety/Safety of Machinery Type Examination Certificate Marine / Shipping	Declaration of Confor	-	Special Test Certific- ate	ates/Test Report	ABS	

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=3RT1466-6NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6NP36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6NP36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6NP36/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6NP36&objecttype=14&gridview=view1

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