SIEMENS

Data sheet 3RT1476-6NP36



Contactor, AC-1, 690 A/690 V/40 °C, S12, 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	S12
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 	185.7 W
 at AC in hot operating state per pole 	61.9 W
 without load current share typical 	3.6 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 %

Main circuit number of NO contacts for main contacts number of NO contacts for main contacts 1	maximum	
number of No contacts for main current circuit number of No contacts for main contacts 2		
number of NC contacts for main contacts Uppe of voltage for main current circuit operational current * af AC-1 — up to 680 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 55 °C rated value — up to 680 V at ambient temperature 55 °C rated value — up to 680 V at ambient temperature 50 °C rated value — up to 680 V at ambient temperature 50 °C rated value — up to 680 V at ambient temperature 60 °C rated value — at 680 V rated value — at 680 V rated value — at 680 V rated value — in 680 V rated value — at 680 V rated value — in 680 V rated value — in 680 V rated value — in 680 V rated value — at 680 V rated value — object of the control		3
Description		
type of voltage for main current circuit operational current		
operational current • at AC-01 — up to 690 V at ambient temperature 40 °C releted value — up to 690 V at ambient temperature 55 °C rolled value — up to 690 V at ambient temperature 60 °C releted value — up to 690 V at ambient temperature 60 °C releted value — at 690 V rated value — at 600 M requested value — at 600 M read value of magnet coil at AC — at 600 M read value — at 600 M read value of magnet coil at AC — at 600 M read value — at 600 M read value of magnet coil at AC — at 600 M read value — at 600 M read value of magnet coil at AC — at 600 M read value — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet coil at AC — at 600 M read value of magnet		
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rated value — up to 5890 Yat amblent temperature 55 °C rated value — up to 5890 Yat amblent temperature 60 °C rated value — at 690 V rated value — at 800 V rated value — at 800 V rated value — at 800 V rated value minimum cross-section in main circuit at maximum AC-1 rated value minimum cross-section in main circuit at maximum AC-1 rated value minimum cross-section in main circuit at maximum AC-1 rated value minimum cross-section in main circuit at maximum AC-1 rated value at AC • at DC 1 000 1/h • at DC 1 000 1/h • at DC 1 000 1/h 2 000		600 A
rated value — up to 690 Yst ambient temperature 60 °C rated value • at AC.23 — at 400 V rated value minimum cross-section in main circuit at maximum AC-1 rated value minimum cross-section in main circuit at maximum AC-1 rated value • at AC • at DC 0 perating frequency • at AC • at DC 0 perating frequency • at AC • at DC 0 perating frequency at AC-1 maximum 600 1/h Control circuit/ Control Vipe of voltage AC/DC vipe of voltage at AC • at 60 Hz rated value • at 60 Hz • at 60 Hz • at 60 Hz design of the surge suppressor • at 60 Hz • at 60 Hz design of the surge suppressor • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 60 Hz • at 60 Hz • at 60 Hz apparent pick-up one of magnet coil at AC • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz apparent pick-up one of magnet coil at AC • at 60 Hz • a		090 A
		600 A
rated value at AC-3 — at 400 V rated value — at 950 V rated value minimum cross-section in main circuit at maximum AC-1 rated value at AC at AC at AC at DC operating frequency at AC set DC operating frequency at AC-1 maximum 600 th Control circuit Control type of voltage AC/DC type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 200 277 V control supply voltage at DC at 50 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V control supply voltage at DC at 60 Hz rated value 200 277 V consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control supply voltage rated value of magnet coil at DC a infalt value alto Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at AC at 60 Hz at 60 Hz but surple voltage rated value of magnet coil at		600 A
		000 A
minimum cross-section in main circuit at maximum AC-1 rated value no-load switching frequency	• at AC-3	
minimum cross-section in main circuit at maximum AC-1 rated value no-load switching frequency	— at 400 V rated value	170 A
Taled value	— at 690 V rated value	170 A
Taled value		
at AC at DC operating frequency at AC-1 maximum 600 1/h control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage at AC at 50 Hz rated value 200 277 V control supply voltage at DC rated value type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC		
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Control circult/ Control AC/DC type of voltage of the control supply voltage AC/DC control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 200 277 V control supply voltage at DC a rated value 200 277 V 200 277 V type of PLC-control input according to IEC 60947-1 Type 2 consumed current at PLC-control input according to IEC 60947-1 maximum 20 mA operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz 750 VA inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz 0.8 closing power factor with the holding power of the coil at 50 Hz at 50 Hz 0.8 closing power of magnet coil at DC 800 W holding	• at DC	1 000 1/h
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type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 maximum operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz inductive power of magnet coil at AC • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz inductive power factor with closing power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC doing delay • at AC • at DC	control supply voltage at DC	
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value of magnet coil at AC • at 50 Hz • at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz inductive power factor with closing power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC arcing time 10 15 ms	• full-scale value	1.1
at 50 Hz at 60 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz are factor with the holding power of the coil at 50 Hz at 50 Hz at 50 Hz at 50 Hz blook at 50 Hz at 50 Hz at 50 Hz blook at 50 Hz at 50 Hz at 50 Hz blook at 50 Hz at 50 Hz blook blook at 50 Hz at 50 Hz at 50 Hz blook at 50 Hz at 50 Hz blook at 50 Hz at 50 Hz blook at 50 Hz blook at 50 Hz at 50 Hz blook		
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• at 50 Hz inductive power factor with closing power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC oeat AC • at DC oeat AC • at DC at AC • at DC oeat AC • at DC at AC • at DC oeat AC oeat	design of the surge suppressor	with varistor
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apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC 80 100 ms • at DC 80 100 ms arcing time	inductive power factor with closing power of the coil	
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inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC at DC 800 W 60 90 ms 60 90 ms 60 90 ms opening delay • at AC • at DC 80 100 ms • at DC 80 100 ms arcing time		7 VA
closing power of magnet coil at DC 800 W holding power of magnet coil at DC 3.6 W closing delay 	inductive power factor with the holding power of the	
holding power of magnet coil at DC 3.6 W closing delay at AC at DC 60 90 ms opening delay at AC at DC at DC at DC o at DC 80 100 ms arcing time 10 15 ms	• at 50 Hz	0.8
closing delay 60 90 ms • at DC 60 90 ms opening delay 60 90 ms • at AC 80 100 ms • at DC 80 100 ms arcing time 10 15 ms	closing power of magnet coil at DC	800 W
 at AC 60 90 ms 60 90 ms opening delay at AC at DC 80 100 ms at DC 80 100 ms 100 ms 100 ms 	holding power of magnet coil at DC	3.6 W
● at DC opening delay ● at AC ● at DC 80 100 ms ● at DC 80 100 ms 10 15 ms	closing delay	
opening delay ● at AC 80 100 ms ● at DC 80 100 ms arcing time 10 15 ms	• at AC	60 90 ms
 at AC at DC at DC arcing time 80 100 ms 10 15 ms 	• at DC	60 90 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 PI C-IN or Standard A1 - A2 (adjustable)	arcing time	10 15 ms
TEO IN OF Old Indian All Children operating incommissing	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	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	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
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: 800 A (690 V, 50 kA)
 — with type of assignment 2 required 	gR: 710 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
required Installation/ mounting/ dimensions mounting position	gG: 10 A (500 V, 1 kA) 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 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 214 mm 160 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 214 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 214 mm 160 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 214 mm 160 mm 225 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 214 mm 160 mm 225 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 214 mm 160 mm 225 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 214 mm 160 mm 225 mm 20 mm 10 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 214 mm 160 mm 225 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 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 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 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 0 mm
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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 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm
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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 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 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 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 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 214 mm 160 mm 225 mm 20 mm 10 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 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 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 214 mm 160 mm 225 mm 20 mm 10 mm
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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 214 mm 160 mm 225 mm 20 mm 10 mm

- at contactor for auxilian, contacto	Carayy hypa tarminala
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
type of connectable conductor cross-sections	
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 mm ²
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- 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	

(12)

General Product Approval

Confirmation









EMC

Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping other









Confirmation

Confirmation

other Railway

<u>Miscellaneous</u> <u>Special Test Certificate</u>

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=3RT1476-6NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6NP36

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

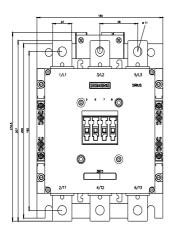
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1476-6NP36&lang=en

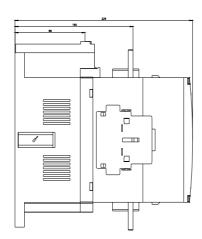
Characteristic: Tripping characteristics, I2t, Let-through current

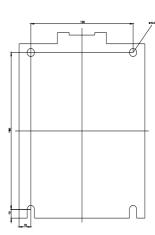
https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6NP36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1476-6NP36&objecttype=14&gridview=view1







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