SIEMENS

Data sheet 3RT1476-6PF35



Contactor, AC-1, 690 A/690 V/40 $^{\circ}$ C, S12, 3-pole, 96-127 V AC/DC, PLC-IN optional, with varistor, 1 NO+1 NC, connection bar/ screw terminal, remaining life time

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 %	

Maintenance of Notice of poles for main current circuit number of Not contacts for main contacts 1	maximum	
number of NO contacts for main current circuit number of NO contacts for main contacts ype of voltage for main current circuit 2 ype of voltage for main current circuit 2 ype of voltage for main current circuit 2 ype of voltage for main current circuit 3 ype of voltage for main current circuit 4 AC -1 4 ype for voltage for main current circuit 5 ype of voltage for main current circuit 4 ype for voltage for main current circuit 5 ype of voltage for main current circuit 5 ype of voltage for main current circuit 6 ype for voltage for main circuit at maximum AC -1 7 ype for voltage for main circuit at maximum AC -1 8 ype for voltage for main circuit at maximum AC -1 8 ype for voltage for main circuit at maximum AC -1 8 ype for voltage for main circuit at maximum AC -1 8 ype for voltage for main circuit at maximum AC -1 8 ype for voltage for main circuit at maximum AC -1 8 ype for voltage AC DC 9 ype of voltage of the control supply voltage AC DC 9 ype of voltage of the control supply voltage AC DC 9 ype of voltage of the control supply voltage AC DC 9 ype of voltage of the control supply voltage AC DC 9 ype of voltage of the control supply voltage ype of voltage of the control supply voltage ype of voltage of the control supply voltage ype of voltage ype ype ype ype ype ype ype ype ype yp		
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		600 A
rated value		600 A
— at 890 V rated value 170 A 480 mm² rated value no-load switching frequency at AC 1 000 1/h 1 00	• at AC-3	
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value of magnet coil at AC • at 50 Hz • at 60 Hz 0.8 1.1 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 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 AC • at DC opening delay • at AC • at DC arcing time 10 15 ms		
■ 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		
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coil ● at 50 Hz 0.8 closing power of magnet coil at DC 800 W holding power of magnet coil at DC 3.6 W closing delay ● at AC 60 90 ms ● at DC 60 90 ms opening delay ● at AC 80 100 ms ● at DC 80 100 ms arcing time 10 15 ms		7 VA
closing power of magnet coil at DC 800 W holding power of magnet coil at DC 3.6 W closing delay 		
holding power of magnet coil at DC 3.6 W closing delay 60 90 ms • at DC 60 90 ms opening delay 80 100 ms • at DC 80 100 ms arcing time 10 15 ms		
closing delay • at AC • at DC • at DC • at AC • at DC • at AC • at AC • at DC		800 W
 at AC at DC 60 90 ms opening delay at AC at DC at DC at DC arcing time 60 90 ms 80 100 ms 100 ms 100 ms 	holding power of magnet coil at DC	3.6 W
• at DC		
opening delay ● at AC 80 100 ms ● at DC 80 100 ms arcing time 10 15 ms		
 at AC 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		
arcing time 10 15 ms	• at AC	
	• at DC	
control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable)	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	1
number of NO contacts for auxiliary contacts	2
attachable	4
• instantaneous contact	1
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)
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	214 mm
width	180 mm
depth	225 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm 0 mm
— at the sidefor grounded parts	0 mm
— at the sidefor grounded parts— forwards	0 mm 20 mm
— at the side• for grounded parts— forwards— upwards	0 mm 20 mm 10 mm
 at the side for grounded parts forwards upwards at the side 	0 mm 20 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards 	0 mm 20 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts 	0 mm 20 mm 10 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards 	0 mm 20 mm 10 mm 10 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 	0 mm 20 mm 10 mm 10 mm 10 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards 	0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards at the side 	0 mm 20 mm 10 mm 10 mm 10 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards at the side Connections/ Terminals	0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - at the side Connections/ Terminals type of electrical connection	0 mm 20 mm 10 mm 10 mm 20 mm 10 mm 10 mm 10 mm
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards downwards at the side Connections/ Terminals	0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm

at contactor for auxiliary contacts	Screw-type terminals
,	**
of magnet coil width of connection bar	Screw-type terminals
thickness of connection bar	25 mm
	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 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- 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	

General Product Approval

Confirmation









EMC

Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping
Type Examination	((UK	Type Test Certific-	Special Test Certificate	

Certificate





ates/Test Report

<u>ate</u>



Marine / Shipping	other









Confirmation

Miscellaneous

other	Railway

Confirmation Special Test Certific-<u>ate</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=3RT1476-6PF35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6PF35

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6PF35

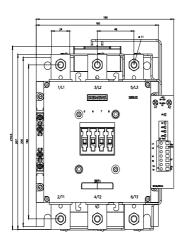
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT1476-6PF35&lang=en

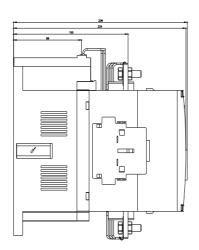
Characteristic: Tripping characteristics, I2t, Let-through current

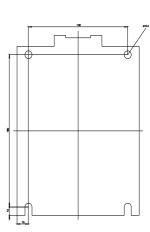
https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6PF35/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1476-6PF35&objecttype=14&gridview=view1







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