SIEMENS

Data sheet 3RT1482-6AF36



Power contactor, AC-1 1050 A, 3-pole AC (50...60 Hz) / DC operation 100...127 V AC / 100...110 V DC Operating mechanism: electronic Auxiliary contacts 2 NO + 2 NC Busbar connections Auxiliary switch and coil connections in screw-type technology

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14

General technical data			
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
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 	600 V		
surge voltage resistance			
 of main circuit rated value 	8 kV		
 of auxiliary circuit rated value 	6 kV		
protection class IP			
• on the front	IP00		
• of the terminal	IP00		
shock resistance with sine pulse			

• at AC	8g / 11 ms
• at DC	8g / 11 ms
mechanical service life (switching cycles)	
of contactor typical	1 000 000
A 1.1 (190)	

Ambient conditions			
 installation altitude at height above sea level maximum 	2 000 m		
ambient temperature			
during operation	-25 +55 °C		
during storage	-40 +80 °C		
relative humidity during operation	0 90 %		

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
type of voltage for main current circuit	AC
operating current	
● at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	1 050 A
 up to 690 V at ambient temperature 55 °C rated value 	1 050 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	1 050 A
— up to 1000 V at ambient temperature 55 °C rated value	1 050 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	800 mm²
no-load switching frequency	
• at AC	600 1/h
• at DC	600 1/h
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	100 127 V
• at 60 Hz rated value	100 127 V
control supply voltage at DC	
• rated value	100 110 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.85

• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.85 1.1
● at 60 Hz	0.85 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	1 000 V·A
● at 60 Hz	1 000 V·A
apparent holding power of magnet coil at AC	
● at 50 Hz	18 V·A
● at 60 Hz	18 V·A
closing power of magnet coil at DC	1 400 W
holding power of magnet coil at DC	6 W
closing delay	
• at AC	80 ms
• at DC	80 ms
opening delay	
● at AC	70 ms
• at DC	70 ms
control version of the switch operating mechanism	Standard A1 - A2
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2
	Standard A1 - A2 2
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts	2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable	2 4
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact	2 4 2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts	2 4 2 2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable	2 4 2 2 4
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact	2 4 2 2 4 2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum	2 4 2 2 4 2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15	2 4 2 2 4 2 4 2
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value	2 4 2 2 4 2 16 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value	2 4 2 2 4 2 16 A 3 A 1.5 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	2 4 2 2 4 2 16 A 3 A 1.5 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operating current at DC-13	2 4 2 2 4 2 16 A 3 A 1.5 A 1.4 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operating current at DC-13 • at 48 V rated value	2 4 2 2 4 2 16 A 3 A 1.5 A 1.4 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operating current at DC-13 • at 48 V rated value • at 60 V rated value	2 4 2 2 4 2 16 A 3 A 1.5 A 1.4 A
Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operating current at AC-12 maximum operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value operating current at DC-13 • at 48 V rated value • at 60 V rated value • at 110 V rated value	2 4 2 2 4 2 16 A 3 A 1.5 A 1.4 A

product function short circuit protection	No
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of assignment 2 required	aR: 1100 A (1000 V, 42 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 16 A (600 V, 1 kA)

Installation/ mounting/ dimensions				
mounting position	+/-30° rotation possible on vertical mounting surface; can be tilted			
	forward and backward by +/- 30° on vertical mounting surface			
mounting type	screw fixing			
side-by-side mounting	No			
height	352 mm			
width	285 mm			
depth	250 mm			
required spacing				
• for grounded parts				
— forwards	125 mm			
— at the side	75 mm			
net weight	22.2 kg			

Connections/ Terminals	
width of connection bar	40 mm
thickness of connection bar	10 mm
diameter of holes	17 mm
type of electrical connection	
for main current circuit	busbar connection
 for auxiliary and control current circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
• of magnet coil	Screw-type terminals
connectable conductor cross-section for auxiliary contacts	
• single or multi-stranded	1 2.5 mm²
 finely stranded with core end processing 	1 2.5 mm²
 type of connectable conductor cross-sections for auxiliary contacts 	
— solid	2x (1 2,5 mm²)
— single or multi-stranded	2x (1 2,5 mm²)
— finely stranded with core end processing	2x (1 2,5 mm²)
• type of connectable conductor cross-sections at AWG conductors for auxiliary contacts	2x (16 14)

еτу			

product function	proc	luct	tun	ction
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• mirror contact acc. to IEC 60947-4-1

No

1

Certificates/ approvals

General Product Approval EMC Declaration of Conformity











Miscellaneous

Test Certific- ates	other		Railway	
Special Test Certi-	Confirmation	Miscellaneous	Special Test Certi-	
ficate			ficate	

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=3RT1482-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1482-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1482-6AF36

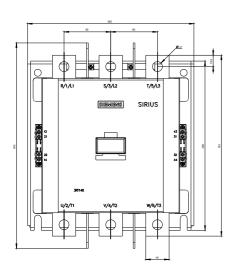
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1482-6AF36&lang=en

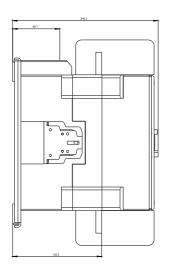
Characteristic: Tripping characteristics, I2t, Let-through current

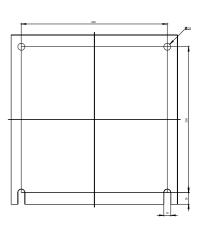
https://support.industry.siemens.com/cs/ww/en/ps/3RT1482-6AF36/char

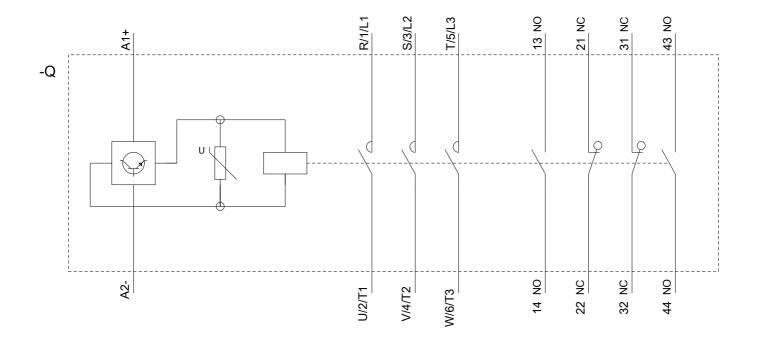
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1482-6AF36&objecttype=14&gridview=view1









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