SIEMENS

Data sheet 3RT1476-6LA06



Contactor, AC-1, 690 A/690 V/40 $^{\circ}$ C, S12, 3-pole, without operating mechanism, 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
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	690 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +60 °C
ambient temperature during storage	-55 +80 °C
relative humidity during operation	0 95 %
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
operational current	

• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	690 A
 up to 690 V at ambient temperature 55 °C rated value 	650 A
 up to 690 V at ambient temperature 60 °C rated value 	650 A
• at AC-3 at 400 V rated value	170 A
minimum cross-section in main circuit at maximum AC-1 rated value	480 mm²
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency at AC-1 maximum	600 1/h
Control circuit/ Control	
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Without operating mechanism
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)
Chart singuit protestion	readily entreming per recomment (1.1.1, 1.111.1)
Short-circuit protection	. rading emoning per roo minion (1.1.1, 1.1.11)
product function short circuit protection	No
product function short circuit protection	
product function short circuit protection design of the fuse link	
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit	_ No
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	No gG: 800 A (690 V, 50 kA)
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch	No gG: 800 A (690 V, 50 kA) gR: 710 A (690 V, 100 kA)
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	No gG: 800 A (690 V, 50 kA) gR: 710 A (690 V, 100 kA)
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	No gG: 800 A (690 V, 50 kA) gR: 710 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting

side-by-side mounting height	Yes 214 mm			
	Z 14 [[[[]			
width	160 mm			
depth	225 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	5			
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
for live parts	10 111111			
— forwards	20 mm			
— upwards	10 mm 10 mm			
downwards at the side	10 mm			
	10 111111	_		
Connections/ Terminals				
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
type of electrical connection				
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			
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			
	70 240 mm²			
stranded connectable conductor gross section for auxiliany.	70 240 111111			
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 (0.7)	5 2.5 mm²), max 2x ((0.75 4 mm²)	
solid solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 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) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
at AWG cables for auxiliary contacts		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12		
Safety related data	ZA (ZO 10), ZA (10 14),	12		
product function	Voc			
mirror contact acc. to IEC 60947-4-1 positively driven expertion acc. to IEC 60047 5 1.		Yes		
positively driven operation acc. to IEC 60947-5-1 protection class IP on the front acc. to IEC 60520.		No		
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover			
·	touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover			
Certificates/ approvals				
General Product Approval		EMC	Declaration of Conformity	













Declaration	of
Conformity	

Test Certificates

Marine / Shipping

other

Miscellaneous

Type Test
Certificates/Test
Report

Special Test Certificate





Confirmation

other

Railway

Miscellaneous

Special Test Certificate

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=3RT1476-6LA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6LA06

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6LA06

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

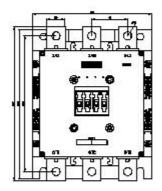
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1476-6LA06&lang=en

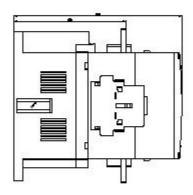
Characteristic: Tripping characteristics, I2t, Let-through current

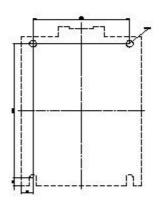
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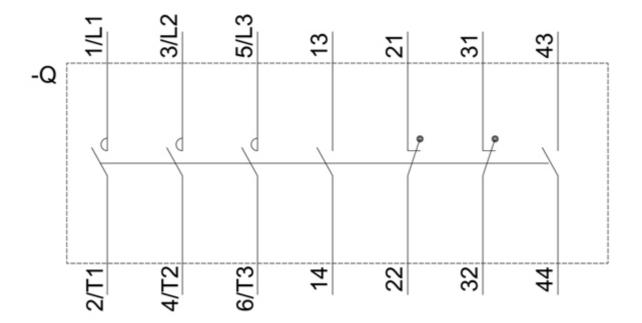
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1476-6LA06&objecttype=14&gridview=view1









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