SIEMENS

Data sheet

3RT1476-6SP36



power contactor AC-1 690 A / 690 V / 40 °C 3-pole, Uc: 200-277 V AC(50-60 Hz) / DC F-PLC input 24 V DC drive: electronic auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: 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 (operating 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)	03/01/2017
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 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
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	600 A
— up to 690 V at ambient temperature 60 °C rated value	600 A
• at AC-3	
— at 400 V rated value	170 A
— at 690 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	500 1/h
• at DC	500 1/h
operating frequency at AC-1 maximum	200 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	200 277 V
• at 60 Hz rated value	200 277 V
control supply voltage at DC	
rated value	200 277 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
type of PLC-control input according to IEC 60947-1	Туре 1
consumed current at PLC-control input according to IEC 60947-1 maximum	30 mA
design of the surge suppressor	with varistor
 apparent pick-up power of magnet coil at AC at 50 Hz 	750 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
 apparent holding power of magnet coil at AC at 50 Hz 	7 VA
inductive power factor with the holding power of the 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 75 ms
• at DC	60 75 ms
opening delay	
• at AC	115 130 ms
• at DC	115 130 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	4
instantaneous contact	2
number of NO contacts for auxiliary contacts	2

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- at the side10 mm- downwards10 mm• for live parts20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwards10 mm- at the side10 mmConnections/ TerminalsVype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• diameter of holes11 mmnumber of holes1		
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- upwards10 mm- downwards10 mm- at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• indet connection bar25 mm• thickness of connection bar6 mm• diameter of holes11 mm• number of holes1	• for live parts	
downwards10 mm at the side10 mmConnections/ TerminalsConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalswidth of connection bar25 mmthickness of connection bar6 mmdiameter of holes11 mmnumber of holes1		20 mm
at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalswidth of connection bar25 mmthickness of connection bar6 mmdiameter of holes11 mmnumber of holes1	— upwards	10 mm
Connections/ Terminals 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 width of connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1	•	10 mm
type of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalswidth of connection bar25 mmthickness of connection bar6 mmdiameter of holes11 mmnumber of holes1	— at the side	10 mm
• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• width of connection bar25 mm• thickness of connection bar6 mm• diameter of holes11 mm• number of holes1	Connections/ Terminals	
• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• width of connection bar25 mm• thickness of connection bar6 mm• diameter of holes11 mm• number of holes1	type of electrical connection	
• 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	for main current circuit	Connection bar
• 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	 for auxiliary and control circuit 	screw-type terminals
width of connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1	-	
thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1	-	
diameter of holes 11 mm number of holes 1	width of connection bar	25 mm
number of holes 1	thickness of connection bar	6 mm
	diameter of holes	11 mm
connectable conductor cross-section for main contacts	number of holes	1
	connectable conductor cross-section for main contacts	

 solid or stranded 	70 240 mm²
stranded	70 240 mm ²
connectable conductor cross-section for auxiliary contacts	70 2 4 0 mm
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	0.5 2.5 mm
for auxiliary contacts	
- solid	2^{1} (0.5 1.5 mm ²) 2^{1} (0.75 2.5 mm ²) may 2^{1} (0.75 4 mm ²)
	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for 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
safety device type according to IEC 61508-2	Туре В
B10 value with high demand rate according to SN 31920	1 000 000
Safety Integrity Level (SIL) according to IEC 61508	2
SIL Claim Limit (subsystem) according to EN 62061	2
performance level (PL) according to EN ISO 13849-1	C
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
PFHD with high demand rate according to EN 62061	4.5E-7 1/h
PFDavg with low demand rate according to IEC 61508	0.007
MTBF	75 a
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
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	EMC
Confirmation CSA	
Functional Safety/Safety of Ma- chinery	Test Certificates other

 chinery
 Type Examination Certificate
 Certificate
 UK

 Upe Examination Certificate
 Certificate
 UK

 Upe Examination Certificate
 Certificate
 Confirmation ates/Test Report

 other
 Railway

 Miscellaneous
 Special Test Certificate
 Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1476-6SP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1476-6SP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6SP36

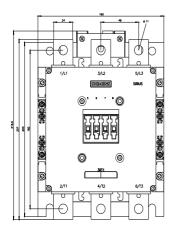
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

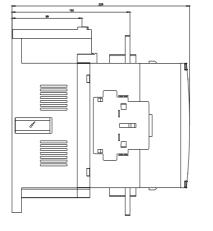
Characteristic: Tripping characteristics, I²t, Let-through current

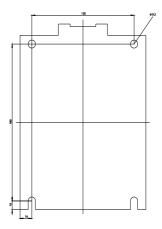
https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-6SP36/char

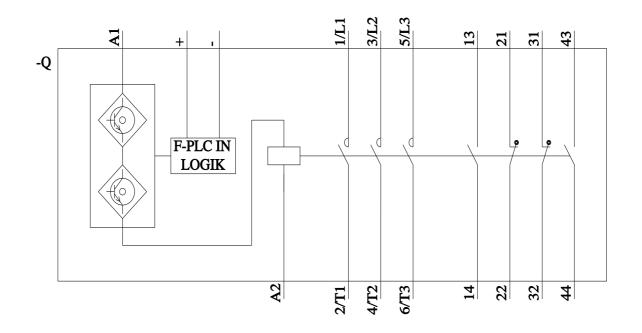
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1476-6SP36&objecttype=14&gridview=view1









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