SIEMENS

Data sheet 3RT1456-6NF36



power contactor AC-1 275 A / 690 V / 40 $^{\circ}$ C 3-pole, Uc: 96-127 V AC(50-60 Hz) / DC 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	S6
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 	86.4 W
 at AC in hot operating state per pole 	28.8 W
 without load current share typical 	2.8 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)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +55 °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	7.0
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 55 °C rated value	250 A
— up to 690 V at ambient temperature 60 °C rated value	250 A
• at AC-3	
— at 400 V rated value	97 A
— at 690 V rated value	97 A
minimum cross-section in main circuit at maximum AC-1 rated value	140 mm²
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency at AC-1 maximum	600 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	96 127 V
at 60 Hz rated value	96 127 V
control supply voltage at DC	
• rated value	96 127 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	Type 2
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC • at 50 Hz	280 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	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.5
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	
• at AC	35 75 ms
• at DC	35 75 ms
opening delay	
• at AC	80 90 ms
• at DC	80 90 ms
arcing time	10 15 ms
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

product function short circuit protection design of the fuse link		
# at 200 V rated value	operational current at AC-12 maximum	10 A
a at 400 V rated value a 400 V rated value 2 A A at 500 V rated value 1 A operational current at DC-13 at 24 V rated value 2 A at 48 V rated value 2 A at 48 V rated value 2 A at 48 V rated value 1 A at 48 V rated value 2 A at 10 V rated value 1 A at 10 V rated value 0.3 A at 22 V rated value 0.3 A at 22 V rated value 0.3 A at 28 V rated value 0.3 A at 800 V rated value 0.3 A	•	
a st 500 V rated value 2.A opprational current at 0C-13 ****		
• at 890 V rated value 10 A 10		
a 24 V rated value		
a 12 4V rated value		1 A
all 48 V rated value	•	
* al 125 V rated value		
* at 220 V rated value		
• at 800 V rated value 0.1 A Gesign of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)		
design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact railability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)		
of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required installation/mounting/ dimensions mounting position * side-by-side mounting • with side-by-side mounting • or or orwards — downwards — at the side — downwards — upwards — of orwards — upwards — of orwards — ownwards — ownward		
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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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-pick protection of the auxiliary switch required protection of the auxiliary switch required for short-pick protection of the auxiliary switch required for short-p	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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 — with vertical mounting surface +/-90* rotatable, with vertical mounting surface • /-22,5* tilable to the front and back screw fixing • side-by-side mounting • side-by-side mounting • with side-by-side mounting — with side-by-side mounting — forwards — upwards — downwards — downwards — of main current circuit — downwards — upwards — of rowards — upwards — of rowards — upwards — of rowards — upwards — of mm — at the side — downwards — of mm — of live parts — forwards — upwards — ownwards — upwards — ownwards — ownwa	Short-circuit protection	
• for short-circuit protection of the main circuit — with type of coordination 1 required 9G: 355 A (690 V, 100 kA) 9 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the auxiliary switch required 10 for short-circuit protection of the short-circuit protect	product function short circuit protection	No
— with type of coordination 1 required gG: 355 A (690 V, 100 kA) — with type of assignment 2 required gR: 350 A (690 V, 100 kA) — for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surfa	design of the fuse link	
- with type of assignment 2 required of for short-circuit protection of the auxiliary switch required installation mounting/ dimensions mounting position	 for short-circuit protection of the main circuit 	
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mounting position with vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-22.5" tiliable to the front and back fastening method	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
## - 22.5" titalple to the front and back ## steening method		
side-by-side mounting side-by-side mounting required spacing with side-by-side mounting forwards upwards upwards of or grounded parts for grounded parts upwards upwards for for grounded parts for for for live parts upwards upwards for live parts for live parts upwards upwards for live parts for live parts upwards upwards for live parts for live parts upwards upwards upwards for live parts for live parts upwards upwards for live parts for live parts upwards upwards for live parts for live parts upwards upwards upwards for live parts for live parts upwards upwards upwards for live parts upwards for live parts upwards upwar	mounting position	
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type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes 10 Connection bar Screw-type terminals Screw-type terminals Screw-type terminals 17 mm 18 mm 19 mm 19 mm	— at the side	10 mm
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width of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mmnumber of holes1	 at contactor for auxiliary contacts 	Screw-type terminals
thickness of connection bar 3 mm diameter of holes 9 mm number of holes 1	of magnet coil	Screw-type terminals
diameter of holes 9 mm number of holes 1	width of connection bar	17 mm
number of holes 1	thickness of connection bar	3 mm
	diameter of holes	9 mm
connectable conductor cross-section for main contacts	number of holes	1
	connectable conductor cross-section for main contacts	

 solid or stranded 	25 120 mm²
• stranded	25 120 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)
 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
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





<u>KC</u>



EMC Safety/Safety of Ma- Declaration of Conformity Test Certificates chinery	
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping other











Confirmation

other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Special Test Certific-</u> <u>Vibration and Shock</u>

<u>ate</u>

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RT1456-6NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1456-6NF36

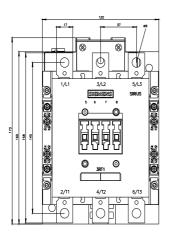
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6NF36

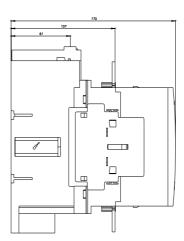
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT1456-6NF36&lang=en

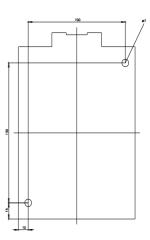
Characteristic: Tripping characteristics, I2t, Let-through current

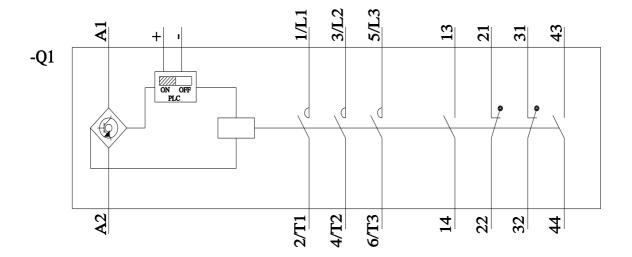
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6NF36/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1456-6NF36&objecttype=14&gridview=view1









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