SIEMENS

Data sheet 3RT1467-6SP36



Contactor, AC-1, 500 A/690 V/40 °C, S10, 3-pole, 200-277 V AC/DC, F-PLC-IN with varistor, 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	S10
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
Substance Prohibitance (Date)	10.08.2018 00:00:00
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 during operation	10 95 %
relative humidity at 55 °C acc. 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	500 A
— up to 690 V at ambient temperature 55 °C rated value	450 A
 up to 690 V at ambient temperature 60 °C rated value 	450 A
• at AC-3	
— at 400 V rated value	138 A
— at 690 V rated value	138 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm ²
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 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
type of PLC-control input acc. to IEC 60947-1	Type 1
consumed current at PLC-control input acc. to IEC 60947-1 maximum	30 mA
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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at ACat 50 Hz	520 V. A
inductive power factor with closing power of the coil	530 V·A
● at 50 Hz	0.8
apparent holding power of magnet coil at AC◆ at 50 Hz	5 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.5
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	60 75 mg
• at AC	60 75 ms
• at DC	60 75 ms
opening delay	115 120 mg
• 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	2
number of NC contacts for auxiliary contacts	2
attachable	4

### A	instantaneous contact	2
Instanchable		
• Instantianeous contact 2 2 3 3 3 3 3 3 3 3	-	
Operational current at AC-12 maximum		
Operational current at AC-15		
earl 230 V rated value	· .	_ 10 A
ad 400 V rated value	•	C A
• at 500 V rated value		
• at 690 V rated value operational current at Dc-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact ratiability of auxillary contacts Short-circuit protection product functions 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 — with type of assignment 2 required		
operational current at DC-13 • at 24 V reted value • at 48 V reted value • at 40 V reted value • at 60 V reted value • at 150 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated va		
• at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 500 V rated value • design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts **Short-circuit protection **product function short circuit protection of the main circuit **ewith type of coordination 1 required **of or short-circuit protection of the auxiliary switch required **for short-circuit protection of the auxiliary switch required **state-inform mounting/ dimensions **mounting position **astening method **side-by-side mounting **existening method **side-by-side mounting **forwards - upwards - downwards - at the side - downwards - at the side - downwards - the side - the		_ 1 A
at 48 V rated value at 100 V rated value 1 A at 125 V rated value 1 A at 125 V rated value 2 A at 225 V rated value 3 A 3 A 4 at 200 V rated value 3 A 4 at 600 V rated value 4 at 600 V rated value 5 A 5 (70 A (230 V, 400 A) grotection of the auxiliary switch required contact reliability of auxiliary contacts T faulty switching per 100 million (17 V, 1 mA) Short-circuit protection product function short circuit protection design of the fuse link 6 for short-circuit protection of the main circuit 9 with type of coordination 1 required 9 with type of coordination 1 required 9 for short-circuit protection of the auxiliary switch required 1 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 side-by-side mounting 9 for short-circuit protection of the auxiliary switch required 9 for switch side by-side mounting 9	•	
at 160 V rated value at 110 V rated value at 110 V rated value 0.9 A 0.9 A 0.9 A 0.9 A 0.1 A 0.1 A 0.1 A 0.1 A 0.1 A 0.1 A 0.2 V rated value 0.1 A 0.1 A 0.2 V rated value 0.1 A 0.2 V rated value 0.1 A 0.2 V rated value 0.1 A 0.1 A 0.2 V rated value 0.1 A 0.2 V rated value 0.1 A 0.1 A 0.2 V rated value 0.1 A 0.2 V rated value 0.1 A 0.2 V rated value 0.1 A 0.1 A 0.2 V rated value 0.1 A 0.1 A 0.2 V rated value 0.2 V rated value 0.3 A 0.4 V rated value 0.5 V rated value 0.6 V rated value 0.7 V rated value 0.8 V rated value 0.9 V rated value 0.9 V rated value 0.1 A 0.1 A 0.1 A 0.1 A 0.2 V rated value 0.2 V rated value 0.3 A 0.4 V rated value 0.5 V rated value 0.6 V rated value 0.7 V rated value 0.8 V rated value 0.9 V rated value 0.1 V rated value 0.1 V rated va		
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at 125 V rated value at 220 V rated value at 230 V rated value 0.1 A design of the miniature 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) Short-circuit protection 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 — with type of assignment 2 required — with type of assignment 2 required — of short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position with vertical mounting surface */-90" rotatable, with vertical mounting surface */-22.5" tiltable to the front and back screw fixing yes height 210 mm width depth 220 mm required spacing with side-by-side mounting — forwards — upwards — ownwards — ownward	at 60 V rated value	
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design of the miniature 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) Short-circuit protection 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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch 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 sput fine the formation of the auxiliary switch required sput fine the f	 at 125 V rated value 	0.9 A
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Short-circuit protection Product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA) gF: 500 A (690 V, 100 kA) gF: 500 A (690 V, 100 kA) gF: 500 A (690 V, 100 kA) gG: 510 A (500 V, 10 kA) gG: 510 A (500 V, 100 kA) gG: 51		gG: 10 A (230 V, 400 A)
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- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm 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	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side — at the side — at the side	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm
- upwards 10 mm - downwards 10 mm - at the side 10 mm 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	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards — downwards — downwards — downwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm
- downwards 10 mm - at the side 10 mm 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	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — upwards — at the side • for grounded parts — downwards — upwards — upwards — at the side — downwards — at the side — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
- at the side 10 mm 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	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — upwards — at the side • forwards — upwards — at the side — downwards — at the side — forwards — forwards • for live parts — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 10 mm
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	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — forwards — at the side — downwards • for live parts — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 0 mm 10 mm
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 1	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm
thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1 type of electrical connection	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — to rowards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — downwards — at the side	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm
diameter of holes number of holes type of electrical connection	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — rowards — upwards — at the side • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — upwards — upwards — at the side — downwards — at the side Connections/ Terminals	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm
number of holes 1 type of electrical connection	fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm
type of electrical connection	fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — at the side — downwards — at the side — downwards — at the side — downwards — at the side — forwards — upwards — at the side — connections/ Terminals width of connection bar thickness of connection bar	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 0 mm 20 mm 10 mm
	fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm
• for main current circuit Connection bar	fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm
	fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 11 mm 10 mm 11 mm 11 mm 11 mm 11 mm 11 mm 11 mm

 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
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	
safety device type acc. to IEC 61508-2	Type B
B10 value with high demand rate acc. to SN 31920	1 000 000
Safety Integrity Level (SIL) acc. to IEC 61508	2
SIL Claim Limit (subsystem) acc. to EN 62061	2
performance level (PL) acc. to EN ISO 13849-1	С
category acc. to EN ISO 13849-1	2
stop category acc. to DIN EN 60204-1	0
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
	10 70
PFHD with high demand rate acc. to EN 62061	0.00000045 1/h

0.007

75 y

20 y

Certificates/ approvals

MTBF

IEC 61508

General Product Approval

EMC





PFDavg with low demand rate acc. to IEC 61508

T1 value for proof test interval or service life acc. to

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

hardware fault tolerance acc. to IEC 61508

Confirmation



IP00; IP20 with box terminal/cover



finger-safe, for vertical contact from the front with box terminal/cover



Functional
Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

other

Type Examination Certificate



Special Test Certificate

Type Test Certificates/Test Report

Confirmation

Miscellaneous

Railway

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=3RT1467-6SP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1467-6SP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1467-6SP36

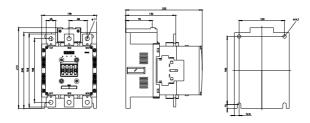
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1467-6SP36&lang=en

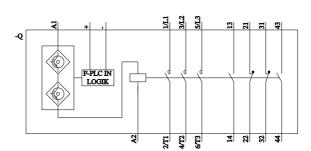
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1467-6SP36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1467-6SP36&objecttype=14&gridview=view1





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