SIEMENS

Data sheet

3RT1466-2AP36



Contactor, AC-1, 400 A/690 V/40 $^\circ$ C, S10, 3-pole, 220-240 V AC/DC, with varistor, 2 NO+2 NC, Connection rail/ Spring-type 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
power loss [W] for rated value of the current	
 at AC in hot operating state 	105.6 W
 at AC in hot operating state per pole 	35.2 W
 without load current share typical 	7.4 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 (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 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 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %

maximum	
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	400 A
rated value	
— up to 690 V at ambient temperature 55 °C	380 A
rated value	
— up to 690 V at ambient temperature 60 °C rated value	380 A
• at AC-3	
	400 A
— 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	240 mm ²
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	
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	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC	
• rated value	220 240 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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	500 V/A
• at 50 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
apparent holding power of magnet coil at AC	6.7.)/A
• at 50 Hz	6.7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
● at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
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• attachable	1
attachable instantaneous contact	4 2
instantaneous contact 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	1A
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	gG: 10 A (230 V, 400 A)
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	No
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)
 — with type of assignment 2 required 	gR: 500 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface $+/-90^{\circ}$ rotatable, with vertical mounting surface $+/-22.5^{\circ}$ tiltable to the front and back
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
mounting position	surface +/- 22.5° tiltable to the front and back
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing
mounting position fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes
mounting position fastening method • side-by-side mounting height	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
mounting position fastening method • side-by-side mounting height width	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method side-by-side mounting height width depth	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method • side-by-side mounting height width depth required spacing	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — 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
mounting position 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	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
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded 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 20 mm
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mounting position 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 — forwards — forwards — forwards — ownwards — forwards — forwards — forwards — forwards — 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 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm 20 mm
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mounting position 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 - at the side - forwards - at the side - forwards - upwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - downwards - at the side - 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 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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• at AVIG cables for auxiliary contacts 2x (24 14) ataty related data For product function Yes • ninric or contact according to IEC 60947-5-1 Yes • positively driven operation according to IEC 60947-5-1 Prove Product function Prove Product Approval protection class IP on the front according to IEC 60520 IP00; IP20 with box terminal/cover IP00; IP20 with box terminal/cover confirmation EMC EMC Confirmation EMC EMC Second Confirmation EMC Functional Safety of Machinery Declaration of Conformity Test Certificates Marine / Shipping Type Examination Lass EMC EMC EMC EMC Marine / Shipping EME EME EME EME Marine / Shipping EME Emeral Product Approval EME EME If yee Examination Lass Condition of Conformity Emeral Product Approval Emeral Product Product Approval Emeral Product Product Approval Emeral Product Product Product Product	— finely stra	anded with core end proces	sing 2	2x (0.25 1.5 mm²)		
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product function • initror 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 forefaces/approvals IP00; IP20 with box terminal/cover General Product Approval EMC Image: safe, for vertical contact from the front with box terminal/cover Image: safe, for vertical contact from the front with box terminal/cover Image: safe product Approval Image: safe, for vertical contact from the front with box terminal/cover Image: safe, for vertical contact from the front with box terminal/cover Image: safe product Approval Image: safe, for vertical contact from the front with box terminal/cover Image: safe, for vertical contact from the front with box terminal/cover Image: safe product Approval Image: safe, for vertical contact from the front with box terminal/cover Image: safe, for vertical contact from the front with box terminal/cover Image: safe product Approval Image: safe, for vertical contact from the front with box terminal/cover Image: safe, for vertical contact from the front safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe product Approval Image: safe p	 at AWG cables 	s for auxiliary contacts	2	2x (24 14)		
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Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1466-2AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-2AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-2AP36

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

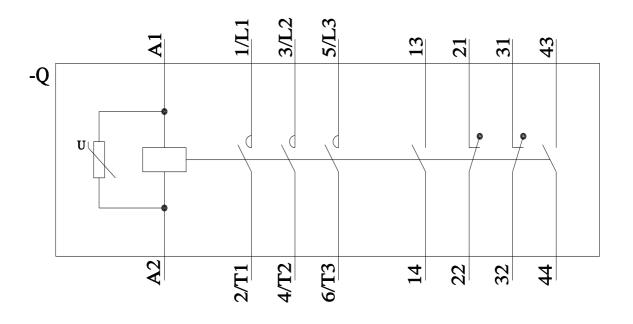
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-2AP36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-2AP36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-2AP36&objecttype=14&gridview=view1



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