SIEMENS

Data sheet

3RT1466-6AB36



power contactor AC-1 400 A / 690 V / 40 $^\circ$ C 3-pole, Uc: 23-26 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name SIRUS product designation Contactor general technical data 3RT14 General technical data Size of contactor size of contactor S10 product textension No • function module for communication No • auxiliary switch Yes power loss (W) for rated value of the current 05.6 W • at AC in hot operating state per pole 35.2 W • without load current share typical 1000 V of main circuit with degree of pollution 3 rated value 1000 V of auxiliary dircuit with degree of pollution 3 rated value 500 V surge ontage resistance 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • at DC 8.5g / 5 ms, 4.2g / 10 ms • at DC 13.4g / 5 ms, 6.5g / 10 ms • at DC 13.4g / 5 ms, 6.5g / 10 ms • of contactor with added electronically optimized auxiliary switch block typical 10000 000 • of the contactor with added auxiliary switch block typical </th <th></th> <th></th>		
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 %	reference code according to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C
	relative humidity minimum	10 %
		95 %
Main circuit	Main circuit	
number of poles for main current circuit 3	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	400 A
— up to 690 V at ambient temperature 55 $^\circ C$ rated value	380 A
— up to 690 V at ambient temperature 60 °C rated value	380 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	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	23 26 V
• at 60 Hz rated value	23 26 V
control supply voltage at DC	
rated value	23 26 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	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
apparent holding power	
 at minimum rated control supply voltage at DC 	6.1 VA
 at maximum rated control supply voltage at DC 	7.4 VA
apparent holding power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
 at maximum rated control supply voltage at AC 	
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	6.7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9

closing newer of magnet soil at DC	
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
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)
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 required 	gG: 10 A (500 V, 1 kA)
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface
Installation/ mounting/ dimensions mounting position	
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm
Installation/ mounting/ dimensions 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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 0 mm
Installation/ mounting/ dimensions 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	with vertical mounting surface +/-90° rotatable, with vertical mounting 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
Installation/ mounting/ dimensions 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 — upwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 0 mm 20 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — a the side • a the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm

— forwards — upwards			mm mm			
— downwards			mm			
— at the side			mm			
Connections/ Terminals	3					
type of electrical conn						
 for main current of 		Co	nnection bar			
 for auxiliary and of 			screw-type terminals			
at contactor for auxiliary contacts			Screw-type terminals			
of magnet coil			rew-type terminals			
width of connection b	ar		mm			
thickness of connection bar			nm			
diameter of holes			mm			
number of holes						
	or cross-section for mair					
			240 mm²			
stranded	solid or stranded					
			240 mm²			
	or cross-section for auxi		4			
 solid or stranded 	ith core and me		$5 \dots 4 \text{ mm}^2$			
	ith core end processing		5 2.5 mm²			
	onductor cross-sections	5				
 for auxiliary containing 	acts					
— solid			(0.5 1.5 mm ²), 2x (0.75		· · · · · · · · · · · · · · · · · · ·	
— solid or stra			(0,5 1,5 mm ²), 2x (0,75		4 mm²)	
	ded with core end process		(0.5 1.5 mm ²), 2x (0.75			
	or auxiliary contacts	2x	(20 16), 2x (18 14), 1x	: 12		
Safety related data						
product function						
 mirror contact ac 	cording to IEC 60947-4-1	Ye	S			
 positively driven 	operation according to IEC	C 60947-5-1 No)			
protection class IP on	the front according to I	EC 60529 IPC	00; IP20 with box terminal/c	over		
touch protection on th	a front according to IEC	COE00 6m		, , , , ,, , , , , , , , , , , , , , ,		
	le nonit according to iEC	60529	ger-safe, for vertical contact	t from the front with box ter	rminal/cover	
Certificates/ approvals		, 60529 Ini	ger-safe, for vertical contact	t from the front with box ter	rminal/cover	
-	· · ·	, 0025a	ger-safe, for vertical contact	t from the front with box ter	EMC	
Certificates/ approvals	· · ·		ger-sate, for vertical contact	from the front with box ter		
Certificates/ approvals	· · ·	Confirmation	ger-sare, for vertical contact	FRF		
Certificates/ approvals	· · ·		ger-safe, for vertical contact	ERE		
Certificates/ approvals General Product Appr	roval	Confirmation	U L	ERIC	EMC ECM	
Certificates/ approvals General Product Appr	roval	Confirmation	Test Certificates	ERIC		
Certificates/ approvals General Product Appr CSA Functional Safety/Safety of Ma-	roval	Confirmation	U L	Effective contraction of the formation o	EMC ECM	
Certificates/ approvals General Product Appr Contemport General Product Appr Contemport	roval CCC Declaration of Confor	Confirmation	Test Certificates	ERC Special Test Certific-	EMC ECM	
Certificates/ approvals General Product Appr Contemporal General Product Appr Contemporal Safety/Safety of Ma- chinery Type Examination Cer- tificate	roval CCC Declaration of Confor	Confirmation	Test Certificates	ERC Special Test Certific- ate	EMC ECM	
Certificates/ approvals General Product Approverses General Product Approverses General Product Approverses Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	roval CCC Declaration of Confor	Confirmation	Test Certificates Type Test Certific- ates/Test Report	ERC Special Test Certific- ate	EMC ECM Marine / Shipping	
Certificates/ approvals General Product Appr Certificate Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	roval CCC Declaration of Confor CCC EG-Konf.	Confirmation	Test Certificates Type Test Certificates Contract Report	ERC Special Test Certific- ate	EMC ECM Marine / Shipping	

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

om/cs/ww/en/view/109813875 https://support.industry.sieme

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=3RT1466-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AB3

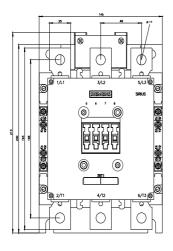
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AB36&lang=en

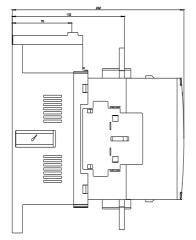
Characteristic: Tripping characteristics, I2t, Let-through current

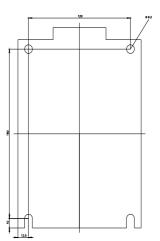
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AB36/char

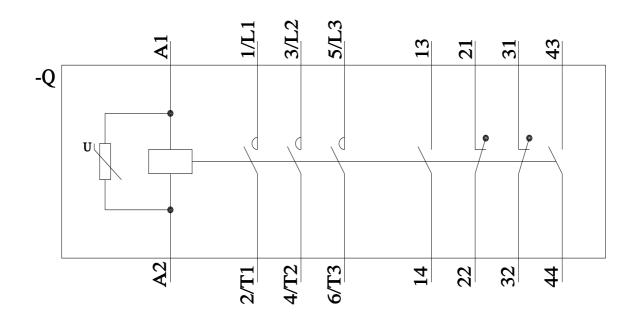
Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RT1466-6AB36&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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