SIEMENS

Data sheet

3RT1466-6AF36



power contactor AC-1 400 A / 690 V / 40 $^\circ$ C 3-pole, Uc: 110-127 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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ambient temperature • during operation • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	Ambient conditions	
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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 $^\circ\text{C}$ 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	110 127 V
• at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 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
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

	250.14
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	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 V rated value at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.3 A 0.1 A gG: 10 A (230 V, 400 A)
at 600 V rated value design of the miniature circuit breaker for short-circuit protection	0.1 A
• at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	0.1 A gG: 10 A (230 V, 400 A)
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA)
the state of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA)
the term of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link for short-circuit protection of the main circuit	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No
t at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA)
t at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA)
the state of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA)
the at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 Installation/ mounting/ dimensions	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA)
the state of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA)
the at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 Installation/ mounting/ dimensions	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA)
the term of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 Installation/ mounting/ dimensions mounting position	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
the two set of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 • 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-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-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 protectin of the auxiliary switch required • for short-circuit	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 • 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-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-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
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the state of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width 	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) Vith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
t 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 • 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-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • fastening method • side-by-side mounting height width depth required spacing	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) Vith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
the at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 • 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-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • fastening method • side-by-side mounting height width depth	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) vith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
t 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 • 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 • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting — forwards	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No GG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA) 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
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 at 600 V rated value design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 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 Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height with side-by-side mounting forwards upwards upwards at the side 	0.1 A gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No GG: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA) GG: 10 A (500 V, 1 kA) 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
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— forwards			0 mm			
— upwards			0 mm			
— downwards			0 mm			
— at the side		10	0 mm			
Connections/ Terminals						
type of electrical conn	ection					
 for main current of 	circuit	C	onnection bar			
 for auxiliary and control circuit at contactor for auxiliary contacts 			screw-type terminals			
at contactor for auxiliary contacts			crew-type terminals			
• of magnet coil			crew-type terminals			
width of connection bar			5 mm			
thickness of connection	on bar	6	mm			
diameter of holes			1 mm			
number of holes		1				
connectable conducto	or cross-section for main o	contacts				
 solid or stranded 		70	0 240 mm²			
 stranded 		70	0 240 mm²			
connectable conducto	or cross-section for auxilia	ary contacts				
 solid or stranded 		0.	.5 4 mm²			
 finely stranded w 	ith core end processing	0.	5 2.5 mm²			
	onductor cross-sections					
 for auxiliary containing 						
— solid		2>	x (0.5 1.5 mm²), 2x (0.75 .	2.5 mm²), max. 2x (0.75	4 mm²)	
— solid or stra	nded		x (0,5 1,5 mm²), 2x (0,75 .		,	
	led with core end processin		x (0.5 1.5 mm²), 2x (0.75 .			
-	or auxiliary contacts	•	x (20 16), 2x (18 14), 1x			
Safety related data			(<u>10</u> 10), <u>1</u> , (10 1),			
product function						
-	cording to IEC 60947-4-1	V	es			
	operation according to IEC					
			No			
protection class IP on the front according to IEC 60529		C 60520 ID	IP00; IP20 with box terminal/cover			
-					minal/aavar	
touch protection on th	the front according to IEC e front according to IEC 6		200; IP20 with box terminal/c nger-safe, for vertical contact		minal/cover	
touch protection on th Certificates/ approvals	e front according to IEC 6					
touch protection on th	e front according to IEC 6				minal/cover	
touch protection on th Certificates/ approvals	e front according to IEC 6					
touch protection on th Certificates/ approvals	roval	50529 fir				
touch protection on th Certificates/ approvals General Product Appr CEA Functional Safety/Safety of Ma-	roval	50529 fir	nger-safe, for vertical contact		EMC ECM	
touch protection on th Certificates/ approvals General Product Appr Example CSA Functional Safety/Safety of Ma- chinery Type Examination Cer-	roval	ity	rger-safe, for vertical contact	From the front with box ter ERE	EMC ECM	
touch protection on th Certificates/ approvals General Product Appr ECSA Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	roval	ity	rger-safe, for vertical contact	t from the front with box ter ERE Special Test Certific- ate	EMC ECM	
touch protection on th Certificates/ approvals General Product Appr ECSA Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	roval	ity	Test Certificates	t from the front with box ter ERE Special Test Certific- ate	EMC ECM Marine / Shipping Mass	
touch protection on the Certificates/ approvals General Product Approversion General Product Approversion Contemposed on the second sec	roval Declaration of Conform UKA VEA	ity	rger-safe, for vertical contact	t from the front with box ter ERE Special Test Certific- ate	EMC ECM Marine / Shipping Mass	

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=3RT1466-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AF3

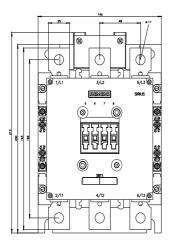
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AF36&lang=en

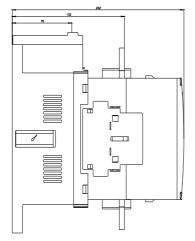
Characteristic: Tripping characteristics, I2t, Let-through current

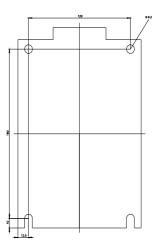
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AF36/char

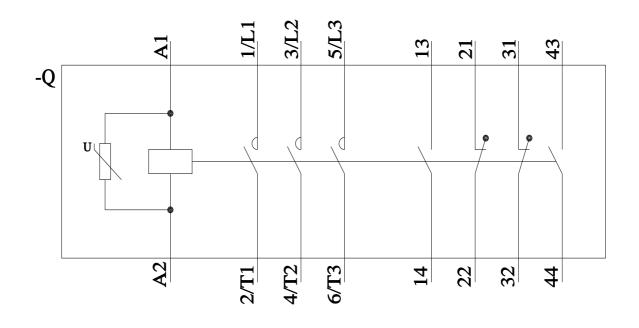
Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RT1466-6AF36&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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