SIEMENS

Data sheet

3RT1466-6AR36



power contactor AC-1 400 A / 690 V / 40 °C 3-pole, Uc: 440-480 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	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 (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 +60 °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	
• 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 $^\circ \mathrm{C}$ 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	440 480 V
• at 60 Hz rated value	440 480 V
control supply voltage at DC	
rated value	440 480 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

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 200 V rated value 6 A • at 200 V rated value 3 A • at 600 V rated value 1 A operational current at DC-13 - • at 24 V rated value 1 A • at 60 V rated value 2 A • at 60 V rated value 1 A • at 100 V rated value 2 A • at 100 V rated value 1 A • at 60 V rated value 1 A • at 60 V rated value 1 A • at 100 V rated value 1 A • at 100 V rated value 1 A • at 60 V rated value 0.9 A • at 20 V rated value 0.1 A • at 20 V rated value 0.1 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • design of the miniature circuit protection 0.1 A ofthe auxiliary switch required 1 G: 10 A (230 V,		
cisilo		650 W
• #AC30 98 msopening datay30 98 ms• # CO30 80 ms• # CO40 80 ms• # CO40 80 ms• # CO40 80 ms• # CO50.ms• # CO<	holding power of magnet coil at DC	7.4 W
• al DC3095 msopening delay80 ms• al DC4080 ms• al DC4080 ms• al DC50 msacting time1015 mscontrol variant of the switch operating mechanisStadiard A1 - A2Availary area2number of NC contects for auxillary contacts2• altachabie4• altachabie2• altachabie2• altachabie3A• altachabie3A <td< td=""><td>closing delay</td><td></td></td<>	closing delay	
openal delay	• at AC	30 95 ms
• # AC40 # Ormsarcing time40 # Ormsarcing time50 molectcontrol version of the switch operating mechanismStandard A1 - A2Number of NC contracts for auxiliary contacts2• altachable4• altachable2• altachable2• altachable4• altachable4• indistinaneous contact2• altachable4• indistinaneous contact2• altachable4• altachable4• altachable4• altachable6• altachable2• altachable3A• altachable2A• altachable2A• altachable2A• altachable3A• altachable2A• altachable2A• altachable3A• altachable3A• altachable2A• altachable2A• altachable2A• altachable3A• altachable3A <td>• at DC</td> <td>30 95 ms</td>	• at DC	30 95 ms
• + IC:4080msancing time015 mscontrol version of the switch operating mechanism015 msNumber of No contects for auxiliary contexts4• attachable1015 ms• attachable2• attachable2• attachable1015 ms• attachable1015 ms• attachable2• attachable1015 ms• attachable1015 ms• attachable2• attachable2• attachable2• attachable315 ms• attachable2• attachable315 ms• attachable315 ms• attachable215 ms• attachable315 ms• attachab	opening delay	
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Auxiliary circuit 2 number of NC contacts for auxiliary contacts 2 • intachable 4 • intachable 2 • intachable 4 • intachable 2 operational current at AC-12 maximum 10 A operational current at AC-13 4 • it 80 V rated value 3A • it 80 V rated value 10 A • it 80 V rated value 2A • it 80 V rated value 0A • it 80 V rated value 0A </td <td>arcing time</td> <td>10 15 ms</td>	arcing time	10 15 ms
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number of NO contacts for auxiliary contacts 2 • ittachable 4 • instantaneous contact 2 operational current at AC-15 • • at 230 V rated value 3 A • at 240 V rated value 3 A • at 240 V rated value 3 A • at 240 V rated value 3 A • at 24 V rated value 3 A • at 24 V rated value 3 A • at 24 V rated value 3 A • at 25 V rated value 3 A • at 25 V rated value 3 A • at 20 V rated value 0 A (20 V, 40 A) o for that c	attachable	4
• attachable4• attachable2operation current at AC-12 maximum10 Aoperation current at AC-15-• att20 Vinted value6 A• att20 Vinted value3 A• att60 Vinted value1 A• att20 Vinted value2 A• att60 Vinted value1 A• att24 Vinted value0 A• att24 Vinted value2 A• att24 Vinted value2 A• att24 Vinted value2 A• att24 Vinted value0 A• att24 Vinted value2 A• att24 Vinted value0 A• att24 Vinted value0 A• att25 Vinted value0 A• att25 Vinted value0 A• att25 Vinted value0 A• att250 Vinted value0 A• attactatup0 A (230 V.400 A)• attac	instantaneous contact	2
• instantaneous contact2operational current at AC-12 maximum0 A0 operational current at AC-15-• • • • • • • • • • • • • • • • • • •	number of NO contacts for auxiliary contacts	2
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product function short circuit protection No design of the fuse link for short-circuit protection of the main circuit 	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)- with type of assignment 2 requiredgR: 500 A (690 V, 100 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Instalation/ mounting/ dimensionsmounting position* /- 22.5* tittable to the front and back* /- 22.5* tittable to the front and back* side-by-side mountingYes• side-by-side mounting210 mmwidth145 mmdepth202 mm• of wards200 mm- of orwards10 mm- upwards10 mm- downwards00 mm- of orwards20 mm- of orwards20 mm- of orwards10 mm- of orwards00 mm- of orwards10 mm <td>product function short circuit protection</td> <td>No</td>	product function short circuit protection	No
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• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensionsmounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and backfastening methodscrew fixing• side-by-side mountingYesheight210 mmwidth145 mmdepth202 mmrequired spacing	 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)
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height210 mmwidth145 mmdepth202 mmrequired spacing202 mm• with side-by-side mounting forwards20 mm- forwards10 mm- downwards10 mm- at the side0 mm- forwards20 mm- at the side10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- at the side10 mm- at the side10 mm- at the side10 mm	• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gR: 500 A (690 V, 100 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface
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required spacing• with side-by-side mounting- forwards0 forwards- upwards0 upwards0 downwards0 mm- at the side0 mm• for grounded parts- forwards- forwards- nupwards- nupwards <td>for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting</td> <td>gR: 500 A (690 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</td>	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting	gR: 500 A (690 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
 with side-by-side mounting forwards upwards domm dommands dommands at the side for grounded parts forwards forwards upwards 10 mm 0 mm 	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height 	gR: 500 A (690 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
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- downwards10 mm- at the side0 mm• for grounded parts forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm	 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing 	gR: 500 A (690 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
- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting 	gR: 500 A (690 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 20 mm
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- forwards20 mm- upwards10 mm- at the side10 mm- downwards10 mm	 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards 	gR: 500 A (690 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 20 mm 10 mm
— upwards10 mm— at the side10 mm— downwards10 mm	 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards 	gR: 500 A (690 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 10 mm 10 mm
- at the side 10 mm - downwards 10 mm	 for short-circuit protection of the auxiliary switch required 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 	gR: 500 A (690 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 10 mm 10 mm
— downwards 10 mm	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 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 	gR: 500 A (690 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 20 mm 10 mm 10 mm 0 mm
	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 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 forwards forward	gR: 500 A (690 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 20 mm 10 mm 10 mm 0 mm 20 mm
for live parts	for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 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 upwards upwards upwards width 	gR: 500 A (690 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 10 mm 0 mm 20 mm 10 mm
	 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 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 upwards at the side forwards upwards at the side 	gR: 500 A (690 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 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm
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— forwards			20 mm			
— upwards — downwards			10 mm			
— downwards — at the side			10 mm			
			10 mm			
Connections/ Terminals			_			
type of electrical conn						
for main current o			Connec			
 for auxiliary and of 			screw-type terminals			
at contactor for a	uxiliary contacts		Screw-type terminals			
of magnet coil width of connection bar				ype terminals		
width of connection bar thickness of connection bar						
diameter of holes						
number of holes						
connectable conductor cross-section for main contacts						
solid or stranded			70 24			
stranded			70 24	10 mm²		
	or cross-section for auxil	liary contacts	0.5.4	2		
solid or stranded			0.5 4			
	ith core end processing		0.5 2	.5 mm²		
	onductor cross-sections					
 for auxiliary containing 	acts					
— solid					. 2.5 mm²), max. 2x (0.75	· ·
— solid or stra					. 2,5 mm²), max. 2x (0,75	4 mm²)
	led with core end process	ing		1.5 mm²), 2x (0.75		
	or auxiliary contacts		2x (20 .	16), 2x (18 14), 1x	12	
Safety related data						
product function						
	cording to IEC 60947-4-1		Yes			
	operation according to IEC		No			
-	the front according to I			20 with box terminal/co		
	e front according to IEC	60529	finger-s	afe, for vertical contact	from the front with box te	rminal/cover
Certificates/ approvals			_	_		
General Product App	oval					EMC
	-	Confirmation		-		
C N			-			~
	(m)	Committation	n	<u>س</u>	гпг	Â
<u></u>		Commutation	n	ሠ	FAL	Ò
A		Commun	n	Ű	EHC	RCM
		Communicity	n	Ű	EAC	RCM
S		Committee	<u>n</u>		EAC	RCM
Functional Safety/Safety of Ma				UL UL	EAC	RCM
Functional Safety/Safety of Ma- chinery	CCC			UL UL	EAC	RCM
Safety/Safety of Ma-	Declaration of Conform			UL Test Certificates	EAC	RCM
Safety/Safety of Ma- chinery	Declaration of Conform	mity		Special Test Certific-	Type Test Certific-	RCM
Safety/Safety of Ma- chinery	Declaration of Conform				Type Test Certific- ates/Test Report	RCM
Safety/Safety of Ma- chinery	Declaration of Conform	mity		Special Test Certific-		Marine / Shipping
Safety/Safety of Ma- chinery		mity CE		Special Test Certific-		Marine / Shipping
Safety/Safety of Ma- chinery	Declaration of Conform	mity CE		Special Test Certific-		Marine / Shipping
Safety/Safety of Ma- chinery <u>Type Examination Cer-</u> <u>tificate</u>	Declaration of Conform	mity CE		Special Test Certific-	ates/Test Report	Marine / Shipping
Safety/Safety of Ma- chinery	Declaration of Conform	mity CE		Special Test Certific-		RCM Marine / Shipping
Safety/Safety of Ma- chinery <u>Type Examination Cer-</u> <u>tificate</u>	Declaration of Conform	mity CE		Special Test Certific-	ates/Test Report	Confirmation
Safety/Safety of Ma- chinery <u>Type Examination Cer-</u> <u>tificate</u>	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery <u>Type Examination Cer- tificate</u> Marine / Shipping	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery <u>Type Examination Cer-</u> <u>tificate</u>	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery <u>Type Examination Cer- tificate</u> Marine / Shipping	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery <u>Type Examination Cer- tificate</u> Marine / Shipping	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Conform	mity CE		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Conform UK CA VA VA VA PRS	mity EE-Konf.		Special Test Certific- ate	ates/Test Report	ABS
Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Conform UK CA VA VA VA PRS	mity CCC EG-Konf.		Special Test Certific- ate	ates/Test Report	ABS

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=3RT1466-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AR3

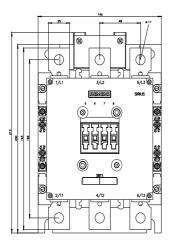
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AR36&lang=en

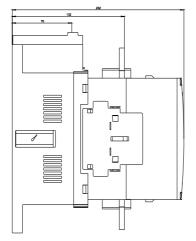
Characteristic: Tripping characteristics, I2t, Let-through current

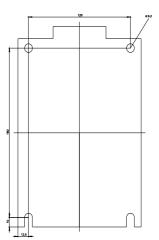
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AR36/char

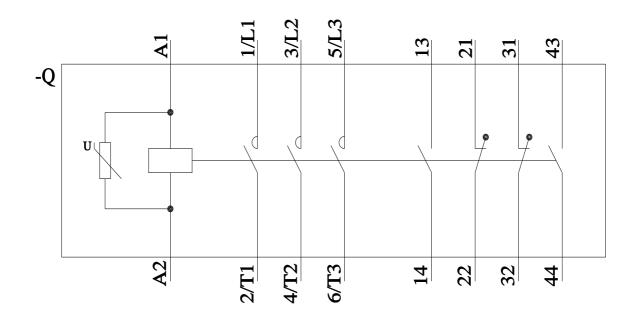
Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RT1466-6AR36&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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