SIEMENS

Data sheet 3RT1264-6AS36



vacuum contactor AC-3e/AC-3 225 A, 110 kW / 400 V, 3-pole, Uc: 500-550 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	Vacuum contactor
product type designation	3RT12
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 	27 W
 at AC in hot operating state per pole 	9 W
without load current share typical	8.2 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
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
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
SVHC substance name	Blei - 7439-92-1
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	
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	330 A
— up to 1000 V at ambient temperature 60 °C rated value	300 A
at AC-3— at 400 V rated value	225 A
	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
• at AC-3e	005.4
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
at AC-4 at 400 V rated value	195 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
— up to 500 V for current peak value n=20 rated value	225 A
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 	225 A 225 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	209 A
— up to 400 V for current peak value n=30 rated value	209 A
— up to 500 V for current peak value n=30 rated value	209 A
— up to 690 V for current peak value n=30 rated value	209 A
— up to 1000 V for current peak value n=30 rated value	209 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	97 A
at 690 V rated value	97 A
operating power	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	315 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	315 kW

operating power for approx. 20000 operating cycles at AC- 4		
a 40 0V rolled value		
e at 990 V rated value		55 kW
Sperating apparent power at AC-6a		
up to 230 V for current peak value m=20 mated value 190 000 VA		34 KVV
150 100 VA 150 Vo for current peak value = 20 trated value 150 100 VA 150 100 VA 150 000 VA 150 0		00 000 kV/A
up to 580 V for current peak value m-20 rated value 280 000 VA up to 1800 V for current peak value m-20 rated value 280 000 VA up to 1800 V for current peak value m-20 rated value up to 240 V for current peak value m-30 rated value up to 240 V for current peak value m-30 rated value up to 400 V for current peak value m-30 rated value up to 540 V for current peak value m-30 rated value up to 580 V for current peak value m-30 rated value up to 1800 V for current peak value m-30 rat		
• up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a	•	
	·	
■ up to 230 V for current peak value n =30 rated value ■ up to 400 V for current peak value n =30 rated value ■ up to 500 V for current peak value n =30 rated value ■ up to 500 V for current peak value n =30 rated value ■ up to 1000 V for current peak value n =30 rated value ■ up to 1000 V for current peak value n =30 rated value ■ up to 1000 V for current peak value n =30 rated value ■ 20000 V A ■ at AC ■ at AC ■ 2000 1 h ■ at AC ■ at AC ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at AC-4 maximum ■ at BC-4 maximum ■ at	<u> </u>	390 000 VA
up to 500 V for current peak value n=30 rated value 180 000 V A 18		00.000.1/4
• up to 500 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • at AC • at AC • at DC • at DC • at DC • at DC • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at BC-4 maximum • at AC-4 maximum • at BC-4 maximum • at AC-4 maximum • at BC-4 maximum		
• up to 690 V for current peak value n=30 rated value no-loads witching frequency • at AC • at DC operating frequency • at AC-1 maximum		
• up to 10000 V for current peak value n=30 rated value • at AC • at DC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at BC Value • at BO Hz rated value • at BO Hz		
A AC	•	
• at AC • at DC • operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at BC + trated value • at 60 Hz rated value • at BC + trated value • at BC +	•	360 000 VA
• al DC operating frequency • al AC-1 maximum • al AC-2 maximum • al AC-3 maximum • al AC-3 maximum • al AC-3 maximum • al AC-3 maximum • al AC-4 maximum • al BO Hz rated value • al 60 Hz rated value • al 60 Hz al AC-4 maximum •		
A C-1 maximum		
■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at BC AT at act Value ■ at 60 Hz rated value ■ at 60 Hz rated value ■ at 60 Hz rated value ■ at BC AT-4 maximum Tata AC-4 maxim		2 000 1/h
at AC-2 maximum at AC-3 maximum 5750 1/h at AC-3 maximum 250 1/h AC/DC AC/DC		
• at AC-3 maximum • at AC-3e maximum • at Control supply voltage at AC • at 50 vltz rated value • at 60 vltz rated value • fold-scale value • at 60 vltz rated value • fold-scale		
* at AC-3e maximum * at AC-4 maximum * 250 1/h ***Control Circulif Control ***Topic of voltage of the control supply voltage ***Control supply voltage at AC *** at 50 Hz rated value *** at 50 Hz rated value *** at 60 Hz ** at 60 Hz *		
* at AC-4 maximum type of voltage of the control supply voltage control supply voltage at AC * at 50 Hz rated value * at 60 Hz rated value control supply voltage at DC * rated value * at 60 Hz rated value control supply voltage at DC * rated value * soo 550 V * operating range factor control supply voltage rated value of magnet coil at DC * initial value * ull-scale value * on 1.1 design of the surge suppressor * at 60 Hz		
type of voltage of the control supply voltage out of supply voltage at AC out of supply voltage at AC out of b Hz rated value out of 0 Hz rated value		
type of voltage of the control supply voltage at AC AC/DC • at 50 Hz rated value 500 550 V • at 60 Hz rated value 500 550 V • rated value 500 550 V operating range factor control supply voltage rated value of anguet coil at DC 0.8 • full-scale value 1.1 operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 • at maximum rated control supply voltage at AC 530 VA • at 80 Hz 630 VA • at 50 Hz 630 VA • at 50 Hz 590 VA • at 50 Hz 90 VA • at 50 Hz 90 VA • at 50 Hz 0.9 • at minimum rated control supply voltage at DC 8.8 VA <		250 1/h
control supply voltage at AC at 150 Hz rated value 500 550 V control supply voltage at DC arated value 500 550 V control supply voltage at DC arated value 500 550 V coperating range factor control supply voltage rated value of magnet coil at DC a initial value full-scale value 0.8 at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 80 Hz at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at AC at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at AC at minimum rated control supply voltage at AC	entrol circuit/ Control	
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control supply voltage at DC	at 50 Hz rated value	500 550 V
operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 0.8 1.1 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz 0.8 1.1 design of the surge suppressor apparent pick-up power at maximum rated control supply voltage at AC at 60 Hz at maximum rated control supply voltage at AC at 60 Hz at maximum rated control supply voltage at AC at 50 Hz at 50 Hz by Carlot	at 60 Hz rated value	500 550 V
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apparent pick-up power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 60 Hz — at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at 60 Hz apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at minimum rated control supply voltage at AC apparent holding power • at minimum rated control supply voltage at AC	● at 60 Hz	0.8 1.1
at minimum rated control supply voltage at AC - at 50 Hz - at 60 Hz - at 60 Hz - at 60 Hz - at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz - at 60 Hz - at 50 Hz - at 60 Hz - at 60 Hz - at 60 Hz block of the coil - at 50 Hz - at 60 Hz at 50 Hz - at 60 Hz - at 60 Hz at 50 Hz - at 60 Hz - at 60 Hz - at 60 Hz - at 60 Hz apparent holding power - at minimum rated control supply voltage at DC - at maximum rated control supply voltage at DC - at minimum rated control supply voltage at AC apparent holding power - at minimum rated control supply voltage at AC	lesign of the surge suppressor	with varistor
- at 50 Hz - at 60 Hz 4 th maximum rated control supply voltage at AC - at 60 Hz - at 50 Hz 630 VA apparent pick-up power of magnet coil at AC at 50 Hz 590 VA at 60 Hz 590 VA inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.9 at 60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at AC	pparent pick-up power	
- at 60 Hz • at maximum rated control supply voltage at AC - at 60 Hz - at 50 Hz 630 VA apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 590 VA inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.9 at 60 Hz apparent holding power • at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC	at minimum rated control supply voltage at AC	
at maximum rated control supply voltage at AC — at 60 Hz — at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz 590 VA at 60 Hz 590 VA inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.9 at 60 Hz 0.9 at 60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC	— at 50 Hz	530 VA
- at 50 Hz - at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz 0.9 apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC	— at 60 Hz	530 VA
- at 50 Hz - at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at AC • at minimum rated control supply voltage at AC	at maximum rated control supply voltage at AC	
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.9 • at 60 Hz apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at minimum rated control supply voltage at DC • at minimum rated control supply voltage at DC • at minimum rated control supply voltage at DC • at minimum rated control supply voltage at DC		630 VA
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz 0.9 apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC	— at 50 Hz	630 VA
at 50 Hz at 60 Hz 590 VA inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.9 at 60 Hz 0.9 apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC		
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apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC		
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at minimum rated control supply voltage at AC	***	U.Z V/\
	at maximum rated control supply voltage at DC	
— at 50 ∏Z	at maximum rated control supply voltage at DC apparent holding power	
ot 60 Hz	at maximum rated control supply voltage at DC pparent holding power at minimum rated control supply voltage at AC	6.1.VA
— at 60 Hz • at maximum rated control supply voltage at AC	at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz	

— at 50 Hz	7.4 VA
— at 50 Hz — at 60 Hz	7.4 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	6.1 VA
• at 60 Hz	6.1 VA
inductive power factor with the holding power of the coil	V.1 V.1
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	700 W
holding power of magnet coil at DC	8.2 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 instantaneous contact	2
number of NO contacts for auxiliary contacts 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-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	40.4
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value at 440 V rated value	2 A
at 110 V rated value at 135 V rated value	1 A
 at 125 V rated value at 220 V rated value 	0.9 A 0.3 A
at 220 V rated value at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	. Iddity officining por 100 million (17 v, 1 mz)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
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)

— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50
a for about airquit protection of the qualitary quitab required	kA)
 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 	gG: 10 A (500 V, 1 kA)
mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface
fastening method	screw fixing
side-by-side mounting	Yes
height	210 mm
width	145 mm
depth	206 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
connectable conductor cross-section for main contacts	
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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEO 00500	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover





Confirmation



<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping









Confirmation

other

other

Railway

Miscellaneous

Confirmation

Vibration and Shock

Special Test Certificate

Further information

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

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1264-6AS36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1264-6AS36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AS36

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

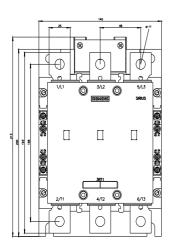
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1264-6AS36&lang=en

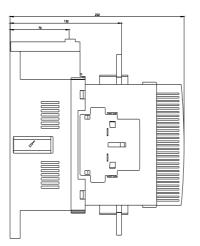
Characteristic: Tripping characteristics, I²t, Let-through current

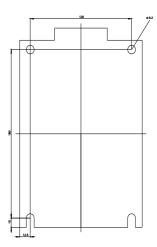
https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AS36/char

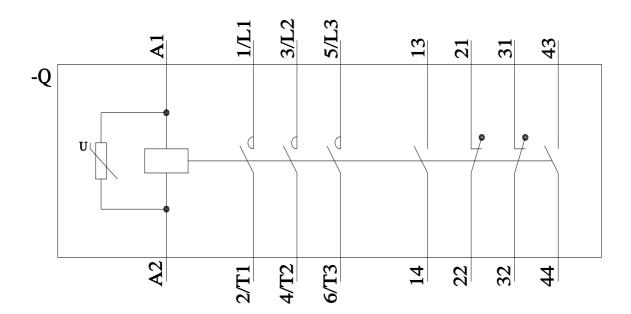
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1264-6AS36&objecttype=14&gridview=view1



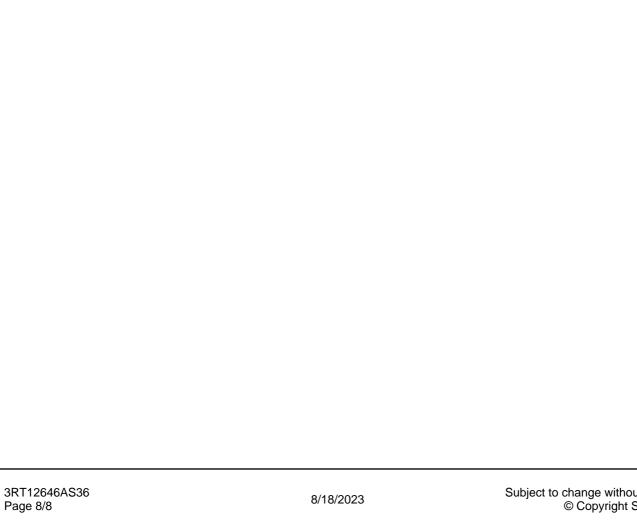






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