SIEMENS

Data sheet

3RT1054-1AB36



power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: box terminal control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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 	21 W
 at AC in hot operating state per pole 	7 W
 without load current share typical 	5.2 W
type of calculation of power loss depending on pole	quadratic
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	Lead - 7439-92-1
Weight	3.66 kg
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 %
Environmental footprint	
Global Warming Potential [CO2 eq] total	379 kg
Global Warming Potential [CO2 eq] during manufacturing	17 kg
global warming potential [CO2 eq] during sales	0.901 kg
Global Warming Potential [CO2 eq] during operation	363 kg
Global Warming Potential [CO2 eq] after end of life	-2.28 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main 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	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 $^\circ\mathrm{C}$ rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	140 A
• at AC-5b up to 400 V rated value	95 A
• at AC-6a	445 A
— up to 230 V for current peak value n=20 rated value	115 A
— up to 400 V for current peak value n=20 rated value	115 A
— up to 500 V for current peak value n=20 rated value	115 A
— up to 690 V for current peak value n=20 rated value	115 A
 up to 1000 V for current peak value n=20 rated value 	53 A
• at AC-6a	00.4
 up to 230 V for current peak value n=30 rated value 	98 A
— up to 400 V for current peak value n=30 rated value	98 A
— up to 500 V for current peak value n=30 rated value	98 A
— up to 690 V for current peak value n=30 rated value	98 A
— up to 1000 V for current peak value n=30 rated value	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	54 A
at 690 V rated value	48 A

operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	160 A
— at 24 V rated value — at 60 V rated value	160 A
— at 10 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value — at 600 V rated value	1.4 A 0.75 A
	0.75 A
• at AC-3	
- at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	29 kW
at 690 V rated value	48 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	40 000 kVA

• up to 500 V for current peak value n=20 rated value100 000 VA• up to 690 V for current peak value n=20 rated value130 000 VA• up to 1000 V for current peak value n=20 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value30 000 VA• up to 500 V for current peak value n=30 rated value80 000 VA• up to 500 V for current peak value n=30 rated value80 000 VA• up to 500 V for current peak value n=30 rated value80 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• up to 1000 V for current peak value n=30 rated value90 000 VA• ilmited to 1 s switching at zero current maximum1654 A; Use minimum cross-section acc. to AC-1 rated value• limited t		
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• at AC-1 maximum 800 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 1000 1/h • at AC-4 maximum 30 1/h • at BO Hz Tated value 23 28 V • at BO Hz Tated value 23 28 V • at BO Hz 0.8 • at BO Hz 250 VA • at BO Hz 250 VA • at BO Hz 300 VA • at BO Hz 300 VA • at BO Hz <td< td=""><td>• at DC</td><td>2 000 1/h</td></td<>	• at DC	2 000 1/h
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• at AC-3 maximum1 000 1/h• at AC-3e maximum300 1/h• at AC-3e maximumAC/DC• at S0 Hz rated value23 28 V• at 60 Hz rated value23 28 V• at 60 Hz rated value23 28 V• at 60 Hz rated value0.8• initial value0.8• initial value0.8• initial value0.8• initial value0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.9 1.1 <td>• at AC-1 maximum</td> <td>800 1/h</td>	• at AC-1 maximum	800 1/h
• at AC-3 e maximum1 000 1/h• at AC-4 maximum30 1/h• oth AC-4 maximumAC/DC• oth at S0 Hz rated valueAC/DC• at S0 Hz rated value23 26 V• at S0 Hz rated value23 26 V• oth at S0 Hz rated value0.8• oth at S0 Hz0.8• oth C10.8• oth C20.8• oth C30.8• oth C40.8• oth C4 <td>• at AC-2 maximum</td> <td>400 1/h</td>	• at AC-2 maximum	400 1/h
• at AC-4 maximum130 1/hcontrol circuit/ Controltype of voltage of the control supply voltage at ACAC/DC• at 50 Hz rated value23 26 V• at 60 Hz rated value23 26 V• at 60 Hz rated value23 26 V• ortnori supply voltage at DC rated value0.8• initial value0.9• initial value0.9• initial value0.9• initial value0.9• initial value <td>• at AC-3 maximum</td> <td>1 000 1/h</td>	• at AC-3 maximum	1 000 1/h
Control circuit/ Control Act/DC control supply voltage at AC 40/DC • at 50 Hz rated value 23 26 V • at 50 Hz rated value 23 26 V control supply voltage at DC rated value 23 26 V control supply voltage at DC rated value 23 26 V control supply voltage rated value 23 26 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • intial value 0.8 • at 50 Hz 0.8 1.1 • at 60 Hz 250 VA - at 60 Hz 250 VA - at 60 Hz 300 VA - at 50 Hz 300 VA - at 50 Hz 300 VA - at 50 Hz 0.9 • a	• at AC-3e maximum	1 000 1/h
type of voltage of the control supply voltage AC/DC control supply voltage at AC 23 26 V • at 50 Hz rated value 23 26 V control supply voltage at DC 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 0.8 • itil-scale value 0.8 • tot 0 Hz 0.8 • at 60 Hz 0.8 1.1 • at maximum rated control supply voltage at AC at 60 Hz - at 60 Hz 300 VA - at 60 Hz 300 VA • at 60 Hz 300 VA • at 60 Hz 300 VA • at 60 Hz 0.9 • at 60 Hz 0.9 • at 60 Hz <	• at AC-4 maximum	130 1/h
Control supply voltage at AC• at 50 Hz rated value23 26 V• at 60 Hz rated value23 26 Vcontrol supply voltage at DC rated value23 26 Voperating range factor control supply voltage rated value of magnet coll at AC0.8• intial value0.8• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 60 Hz0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 50 Hz0.9 VA• at 60 Hz300 VA• at 60 Hz300 VA• at 50 Hz300 VA• at 50 Hz0.9• at 50 Hz0.9• at 60 Hz5.2 VA• at maximum rated control supply voltage at AC• at 60 Hz0.9• at 70 Hz5.2	Control circuit/ Control	
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operating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value1.1operating range factor control supply voltage rated value of magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1design of the surge suppressorwith varistorapparent pick-up power250 VA- at 60 Hz250 VA- at 60 Hz300 VA- at 50 Hz300 VA- at 60 Hz300 VA- at 50 Hz300 VA- at 60 Hz0.9- at 60 Hz0.9- at 60 Hz52 VA- at 60 Hz52 VA- at minimum rated control supply voltage at DC4.3 VA- at minimum rated control supply voltage at DC4.8 VA- at 60 Hz4.8 VA <td< td=""><td>• at 60 Hz rated value</td><td>23 26 V</td></td<>	• at 60 Hz rated value	23 26 V
mignet coil at DC0.8initial value0.8operating range factor control supply voltage rated value of magnet coil at AC0.8<1.1	control supply voltage at DC rated value	23 26 V
• initial value 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 60 Hz 0.8 1.1 design of the surge suppressor with varisfor apparent pick-up power 250 VA • at 60 Hz 250 VA - at 60 Hz 250 VA - at 60 Hz 250 VA - at 60 Hz 300 VA - at 60 Hz 0.9 - at 60 Hz 0.9 - at 60 Hz 0.9 - at 60 Hz 2.2 VA - at minimum rated control supply voltage at DC 5.2 VA - at minimum rated control supply voltage at DC 5.2 VA - at 60 Hz 4.8 VA	operating range factor control supply voltage rated value of	
• full-scale value1.1operating range factor control supply voltage rated value of magnet coil at AC.• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1design of the surge suppressorwith varistorapparent pick-up power250 VA• at 50 Hz250 VA- at 50 Hz250 VA- at 60 Hz300 VA- at 60 Hz0.9- at 60 Hz5.2 VA- at 60 Hz5.2 VA- at 60 Hz5.2 VA	magnet coil at DC	
operating range factor control supply voltage rated value of magnet coil at AC	● initial value	0.8
magnet coil at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1design of the surge suppressorwith varistorapparent pick-up power-• at minimum rated control supply voltage at AC at 50 Hz250 VA- at 60 Hz300 VA- at 60 Hz300 VA- at 50 Hz0.9- at 50 Hz0.9- at 50 Hz0.9- at 50 Hz0.9- at 60 Hz0.9- at 60 Hz0.9- at 60 Hz0.9- at 60 Hz5.2 VA- at minimum rated control supply voltage at DC4.3 VA- at minimum rated control supply voltage at AC at 50 Hz4.8 VA- at 60 Hz at 60 Hz4.8 VA	full-scale value	1.1
at 60 Hz0.8 1.1design of the surge suppressorwith varistorapparent pick-up power at 50 Hz250 VA- at 60 Hz250 VA- at 60 Hz300 VA- at 60 Hz300 VA- at 50 Hz300 VA- at 60 Hz300 VAapparent pick-up power of magnet coil at AC at 60 Hz300 VAat 60 Hz300 VA- at 60 Hz300 VA- at 60 Hz300 VA- at 60 Hz0.9 VA- at 70 Hz0.9 VA </td <td></td> <td></td>		
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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 60 Hz- at 60 Hz- at 50 Hz300 VA- at 50 Hz300 VA- at 50 Hz300 VA- at 50 Hz300 VA- at 50 Hz300 VAat 50 Hz300 VAat 60 Hz- at 50 Hz300 VAat 60 Hz- at 60 Hz- at 60 Hz- at 50 Hz- at 50 Hz- at 50 Hz- at 60 Hz- at minimum rated control supply voltage at DC- at 50 Hz- at 50 Hz- at 60 Hz at 50 Hz at 60 Hz	• at 60 Hz	0.8 1.1
• at minimum rated control supply voltage at AC250 VA- at 50 Hz250 VA- at 60 Hz250 VA- at 60 Hz300 VA- at 50 Hz300 VA- at 50 Hz300 VAat 50 Hz300 VAat 50 Hz300 VAat 60 Hz0.9at 60 Hz5.2 VAat minimum rated control supply voltage at DC4.3 VAat minimum rated control supply voltage at DC5.2 VAat minimum rated control supply voltage at AC4.8 VA- at 50 Hz4.8 VA- at 60 Hz4.8 VA	design of the surge suppressor	with varistor
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• at maximum rated control supply voltage at ACat maximum rated control supply voltage at AC at 60 Hz300 VA at 50 Hz300 VAapparent pick-up power of magnet coil at AC300 VA• at 50 Hz300 VA• at 60 Hz300 VA• at 60 Hz300 VA• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at 60 Hz5.2 VA• at minimum rated control supply voltage at DC5.2 VA• at minimum rated control supply voltage at AC5.2 VA• at minimum rated control supply voltage at AC4.8 VA- at 60 Hz4.8 VA	— at 50 Hz	250 VA
at 60 Hz 300 VA at 50 Hz 300 VA apparent pick-up power of magnet coil at AC	— at 60 Hz	250 VA
at 50 Hz300 VAapparent pick-up power of magnet coil at AC300 VA• at 50 Hz300 VA• at 60 Hz300 VAinductive power factor with closing power of the coil0.9• at 50 Hz0.9• at 60 Hz0.9• at 60 Hz0.9• at minimum rated control supply voltage at DC4.3 VA• at maximum rated control supply voltage at DC5.2 VAapparent holding power4.8 VA- at 50 Hz4.8 VA- at 60 Hz4.8 VA	 at maximum rated control supply voltage at AC 	
apparent pick-up power of magnet coil at AC300 VA• at 50 Hz300 VA• at 60 Hz300 VAinductive power factor with closing power of the coil-• at 50 Hz0.9• at 60 Hz0.9• at 60 Hz0.9apparent holding power-• at minimum rated control supply voltage at DC4.3 VA• at maximum rated control supply voltage at DC5.2 VA• at minimum rated control supply voltage at AC at 50 Hz4.8 VA- at 60 Hz4.8 VA	— at 60 Hz	300 VA
• at 50 Hz300 VA• at 60 Hz300 VAinductive power factor with closing power of the coil	— at 50 Hz	300 VA
• at 60 Hz 300 VA inductive power factor with closing power of the coil - • at 50 Hz 0.9 • at 60 Hz 0.9 apparent holding power - • at minimum rated control supply voltage at DC 4.3 VA apparent holding power 5.2 VA • at minimum rated control supply voltage at AC	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil• at 50 Hz0.9• at 60 Hz0.9apparent holding power• at minimum rated control supply voltage at DC4.3 VA• at maximum rated control supply voltage at DC5.2 VAapparent holding power• at minimum rated control supply voltage at AC	● at 50 Hz	300 VA
• at 50 Hz0.9• at 60 Hz0.9apparent holding power4.3 VA• at minimum rated control supply voltage at DC4.3 VA• at maximum rated control supply voltage at DC5.2 VAapparent holding power5.2 VA• at minimum rated control supply voltage at AC4.8 VA- at 50 Hz4.8 VA- at 60 Hz4.8 VA	● at 60 Hz	300 VA
• at 60 Hz0.9apparent holding power4.3 VA• at minimum rated control supply voltage at DC5.2 VAapparent holding power	inductive power factor with closing power of the coil	
apparent holding power 4.3 VA • at minimum rated control supply voltage at DC 5.2 VA apparent holding power 5.2 VA • at minimum rated control supply voltage at AC - at 50 Hz - at 50 Hz 4.8 VA - at 60 Hz 4.8 VA	● at 50 Hz	0.9
	● at 60 Hz	0.9
e at maximum rated control supply voltage at DC apparent holding power e at minimum rated control supply voltage at AC - at 50 Hz - at 60 Hz 4.8 VA 4.8 VA	apparent holding power	
apparent holding power • at minimum rated control supply voltage at AC - at 50 Hz 4.8 VA - at 60 Hz 4.8 VA	 at minimum rated control supply voltage at DC 	4.3 VA
at minimum rated control supply voltage at AC	 at maximum rated control supply voltage at DC 	5.2 VA
at 50 Hz 4.8 VA at 60 Hz 4.8 VA	apparent holding power	
— at 60 Hz 4.8 VA	 at minimum rated control supply voltage at AC 	
	— at 50 Hz	4.8 VA
at maximum rated control supply voltage at AC	— at 60 Hz	4.8 VA
	 at maximum rated control supply voltage at AC 	

— at 50 Hz	5.8 VA
— at 50 Hz — at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	5.0 VA
at 50 Hz	0.8
• at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	0.2 11
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 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	
 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
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	124 A
• at 600 V rated value	125 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	25 hp
• for 3-phase AC motor	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
— at 575/600 V rated value	125 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: 355 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50

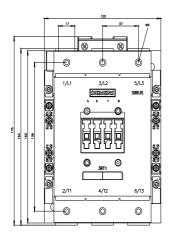
kA)

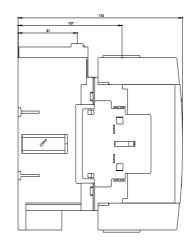
gG: 10 A (500 V, 1 kA)

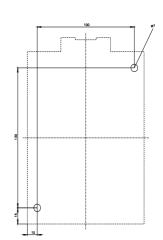
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	172 mm
width	120 mm
depth	170 mm
required spacing	
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	box terminal
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— stranded	max. 1x 50, 1x 70 mm ²
— solid or stranded	max. 1x 50, 1x 70 mm ²
— finely stranded with core end processing	max. 1x 50, 1x 70 mm ²
— finely stranded without core end processing	max. 1x 50, 1x 70 mm ²
for AWG cables for main contacts	2x 1/0
connectable conductor cross-section for main contacts	
• stranded	16 70 mm²
 finely stranded with core end processing 	16 70 mm²
• finely stranded without core end processing	16 70 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
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
suitability for use safety-related switching OFF	Yes

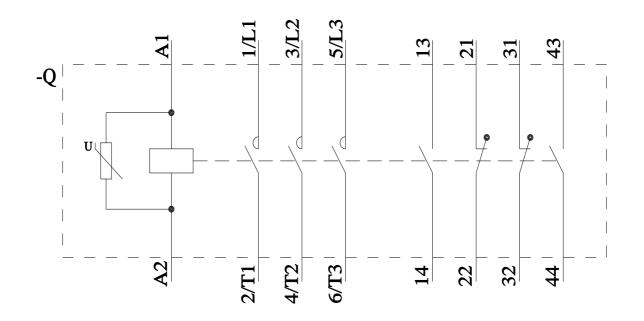
			20 0			
service life maximum			20 a			
est wear-related servic	e life necessary		Yes			
proportion of dangerou	is failures					
 with low demand r 	ate according to SN 37	1920	40 %			
 with high demand 	rate according to SN 3	31920	73 %			
B10 value with high de	mand rate according	to SN 31920	1 000	000		
failure rate [FIT] with lo 31920	w demand rate accor	rding to SN	100 FI	Т		
SO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acco		necessary	Yes			
EC 61508	0	,				
safety device type acco	ording to IEC 61508-2		Туре А	ł		
Electrical Safety						
protection class IP on t	he front according to	IEC 60529	IP20			
ouch protection on the			finger-	safe, for vertical contac	t from the front	
oprovals Certificates	J. J		5			
General Product Appro	wal					
	7701					
	CE EG-Konf.	UK CA		<u>Confirmation</u>	U	KC
General Product Ap- proval	EMV	Functional Saf	itey	Test Certificates		Marine / Shipping
EHC		<u>Type Examinatio</u> <u>tificate</u>	<u>on Cer-</u>	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS
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Marine / Shipping	RCM RCM		<u>n Cer-</u>		ate	ABS Confirmation
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other Miscellaneous	Confirmation kaging iemens.com/cs/ww/en/ loadcenter (Catalogs n/ic10 rdering system) ens.com/mall/en/en/Ca siemens.com/WW/CA uals, Certificates, Cha iemens.com/cs/ww/en/	tificate tificate Railway Special Test Ceate ate /view/109813875 , Brochures,) atalog/product?mlfb= Xorder/default.aspx aracteristics, FAQs /ps/3RT1054-1AB36	ertific- =3RT105 (?lang=er s,)	ates/Test Report	eta ate other Miscellaneous Siemens EcoTech	Environmental Cor
Inther information Miscellaneous Miscellaneous Information on the pack Inters://support.industry.se Information- and Down Inttps://www.siemens.com Industry Mall (Online of Inttps://www.siemens.com Industry Mall (Online of Inttps://www.siemens.com Inttps://www.siemens.com Inttps://www.siemens.com Inttps://www.siemens.com Inttps://www.siemens.com Inttps://www.siemens.com Inttps://www.siemens.com Inttps://support.industry.siemens.com Service&Support (Manu- Inttps://support.industry.se mage database (produ	Confirmation kaging iemens.com/cs/ww/en/ loadcenter (Catalogs n/ic10 rdering system) ens.com/mall/en/en/Ci uals, Certificates, Cha iemens.com/cs/ww/en/ ct images, 2D dimens	tificate tificate Railway Special Test Ceate ate Aview/109813875 , Brochures,) atalog/product?mlfb= Avorder/default.aspx aracteristics, FAQs ps/3RT1054-1AB36 sion drawings, 3D r	ertific- =3RT105 {?lang=er \$,) } models,	ates/Test Report	eta ate other Miscellaneous Siemens EcoTech	Environmental Cor
other Miscellaneous	Confirmation <u>Confirmation</u> kaging iemens.com/cs/ww/en/ loadcenter (Catalogs n/ic10 rdering system) ens.com/mall/en/en/Ci siemens.com/WW/CA uals, Certificates, Cha iemens.com/cs/ww/en/ ct images, 2D dimens emens.com/bilddb/cax g characteristics, I²t, I	tificate tificate Railway Special Test Ceate ate Aview/109813875 , Brochures,) atalog/product?mlfb= Axorder/default.aspx aracteristics, FAQs (ps/3RT1054-1AB36 yold rawings, 3D r de.aspx?mlfb=3RT Let-through current	=3RT105 (?lang=er \$,) models, [1054-1A t	ates/Test Report	eta ate other Miscellaneous Siemens EcoTech	Environmental Cor

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-1AB36&objecttype=14&gridview=view1









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