SIEMENS

Data sheet 3RT1054-6AP36

SIRIUS





power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



•	
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
Net Weight	3.303 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	
Environmental Product Declaration(EPD)	Yes
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
number of NC contacts for main contacts	0
operating voltage	4,000 \
at AC-3 rated value maximum 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 	160 A
value — up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 °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 at AC-5b up to 400 V rated value	140 A
at AC-5b up to 400 V rated valueat AC-6a	95 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	
— 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	53 A

value	
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	
— 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	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	1.4 A
— at 600 V rated value	0.75 A
operating power	
• 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-	
• 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 kVA
 up to 400 V for current peak value n=20 rated value 	80 kVA
 up to 500 V for current peak value n=20 rated value 	100 kVA
 up to 690 V for current peak value n=20 rated value 	130 kVA
up to 1000 V for current peak value n=20 rated value	90 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	30 kVA
 up to 400 V for current peak value n=30 rated value 	60 kVA
 up to 500 V for current peak value n=30 rated value 	80 kVA
• up to 690 V for current peak value n=30 rated value	110 kVA
• up to 1000 V for current peak value n=30 rated value	90 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	2 565 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 654 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	729 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	572 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e	
— maximum	1 000 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC rated value	220 240 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value operating range factor control supply voltage rated value of	1.1
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	250.VA
— at 50 Hz	250 VA
— at 60 Hz	250 VA
at maximum rated control supply voltage at AC	200 \/A
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	200 \/A
● 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
 at maximum rated control supply voltage at DC 	5.2 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	4.8 VA
— at 60 Hz	4.8 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	
• 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
	V.Z VV
closing delay	20 05 mg
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	4000
• 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
uxiliary 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 40 V rated value at 60 V rated value	2 A
at 100 V rated value at 110 V rated value	1A
at 110 V rated value at 125 V rated value	0.9 A
♥ at 1∠J v rateu value	U.U A
at 220 V rated value	03Λ
at 220 V rated value at 600 V rated value	0.3 A
• at 600 V rated value	0.1 A
at 600 V rated value contact reliability of auxiliary contacts	
at 600 V rated value contact reliability of auxiliary contacts IL/CSA ratings	0.1 A
at 600 V rated value contact reliability of auxiliary contacts JL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value contact reliability of auxiliary contacts JL/CSA ratings	0.1 A

yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 2575/600 V rated value — at 575/600 V rated value — at 60/400 V rated value — at 60/400 V rated value — at 75/600 V rated value — at 75/600 V rated value — at 60/400 V rated value — at 75/600 V rated value — at 60/600 C characteristic: 10 A: 0.4 kA C characteristic: 10 A: 0.4 kA G characteristic: 10 A: 0.4 kA G characteristic: 10 A: 0.4 kA G characteristic: 10 A: 0.4 kA G characteristic: 10 A: 0.4 kA G charac	
■ at 230 V rated value	
of for 3-phase AC motor	
- at 200/208 V rated value 50 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 - at 575/600 V rated value 125 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 miniature circuit breaker for short-circuit protection of the main circuit - with type of coordination 1 required 9G: 355 A (690 V, 100 kA) 9G: 250 A (690 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA), ami: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (600 V, 100 kA) • gG: 250 A (690 V, 100 kA), ami: 200 A (690 V, 100 kA), ami: 2	
- at 220/230 V rated value	
- at 460/480 V rated value 100 hp 125	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required — with type of coordination 3 required — with type of coordination 2 required — with type of coordination 3 required — with type of coordination 2 required — with type of coordination 3 required — with type of coordination 4 required — with type of coordination 5 required — with vertical mounting surface +/-90° rotatable, with ver	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required ska) • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required ska) • for short-circuit protection of the auxiliary switch required — with type of coordination 2 required ska) • for short-circuit protection of the auxiliary switch required — with year of coordination 2 required ska) — with year of coordination 2 required satisfactory of the auxiliary switch required state in the foot and back shall attion/ mounting dimensions mounting position — with vertical mounting surface +/-90* rotatable, with vertical mounting su	
Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required — with type of coordination 2 required — of or short-circuit protection of the auxiliary switch required gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 2 kA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90" rotatable, with ver	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required — with type of coordination 2 required — of short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting method side-by-side mounting fastening method side-by-side mounting **required spacing** • with side-by-side mounting — forwards — upwards — downwards — at the side — of orgounded parts — for grounded parts — forwards — upwards — at the side — downwards — to mm — at the side — downwards — of ownwards — of ownward	
design of the fuse link of or short-circuit protection of the main circuit	
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions with vertical mounting surface +/-90* rotatable, with vertical mounting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface +/-90* rotatab	
- with type of coordination 1 required - with type of coordination 2 required - with type of coordination 2 required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of switch yes defined and suit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the suit protection of the protection of the protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the auxiliary switch required - of reshort-circuit protection of the pro	
- with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions with vertical mounting surface */-90° rotatable, with vertical mounting position with vertical mounting surface */-90° rotatable, with vertical mounting surface */-90° ro	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical 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 — at the side 0 mm • for grounded parts — at the side 10 mm — at the side 10 mm — downwards 10 mm • for live parts — forwards 20 mm • for live parts — forwards 20 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 20 mm — upwards — upwards 10 mm • for live parts — forwards 20 mm — upwards — downwards 10 mm • for live parts — forwards 20 mm — upwards — upwards — upwards — upwards — lo mm — downwards 10 mm • for live parts — forwards — upwards — upwards — upwards — upwards — lo mm — downwards — upwards — lo mm — downwards — lo mm — lo mm — downwards — lo mm	
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting +/-22.5° that	50 A (415 V, 50
Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting position +/- 22.5° tiltable to the front and back 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 — at the side 0 mm for grounded parts — forwards 20 mm of or grounded parts — the side 10 mm — at the side 10 mm — at the side 10 mm — odwnwards 10 mm — of orwards 20 mm — upwards 10 mm — of or grounded parts — forwards 20 mm — upwards 10 mm — of the side 10 mm of or live parts — forwards 20 mm — downwards 10 mm of or live parts — forwards 20 mm — downwards 10 mm of or live parts — forwards 20 mm — upwards 10 mm of or live parts — forwards 20 mm — upwards 10 mm of or live parts — forwards 20 mm — upwards 10 mm — downwards 10 mm	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting +/-90° rotatable, with vertical mounting +/-	
fastening method side-by-side mounting fastening method fastening method height interpretation of the side of	
fastening method side-by-side mounting fastening method height vidth total 172 mm vidth total 170 mm required spacing • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — to mm • for wards — to mm • for grounded parts — forwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — downwards 10 mm	ounting surface
fastening method screw fixing height 172 mm width 120 mm depth 170 mm required spacing 170 mm • with side-by-side mounting 20 mm — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — upwards 20 mm — upwards 10 mm — downwards 10 mm	
height 172 mm width 120 mm depth 170 mm required spacing 170 mm • with side-by-side mounting 20 mm — forwards 20 mm — upwards 10 mm — at the side 0 mm • for grounded parts 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — upwards 20 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm	
width 120 mm depth 170 mm required spacing	
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 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — upwards 20 mm — upwards 10 mm — downwards 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — 10 mm — downwards — 10 mm — at the side — 0 mm • for grounded parts — forwards — upwards — upwards — at the side — 10 mm — at the side — 10 mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — 10 mm	
 with side-by-side mounting forwards upwards downwards downwards at the side for grounded parts forwards upwards at the side form upwards at the side downwards for live parts for live parts upwards forwards forwards for live parts downwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm 	
— forwards 20 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 20 mm — forwards 20 mm — upwards 10 mm • for live parts 10 mm — forwards 20 mm — upwards 10 mm — downwards 10 mm	
 upwards downwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts for live parts forwards at the side downwards for live parts forwards upwards downwards 10 mm mm downwards 10 mm 	
— downwards 10 mm — at the side 0 mm ● for grounded parts 20 mm — forwards 10 mm — at the side 10 mm — downwards 10 mm ● for live parts 20 mm — upwards 20 mm — upwards 10 mm — downwards 10 mm	
 at the side for grounded parts forwards upwards at the side downwards for live parts forwards upwards 10 mm downwards for live parts upwards upwards downwards 10 mm mm downwards 10 mm 	
 for grounded parts forwards upwards at the side downwards for live parts forwards upwards mm forwards upwards downwards mm mm mm mm 	
— forwards 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — forwards 20 mm — upwards 10 mm — downwards 10 mm	
— upwards 10 mm — at the side 10 mm — downwards 10 mm • for live parts 20 mm — forwards 20 mm — upwards 10 mm — downwards 10 mm	
— at the side 10 mm — downwards 10 mm • for live parts — forwards 20 mm — upwards 10 mm — downwards 10 mm	
 — downwards ● for live parts — forwards — upwards — downwards 10 mm 10 mm 	
● for live parts — forwards 20 mm — upwards 10 mm — downwards 10 mm	
 forwards upwards downwards 20 mm 10 mm 10 mm 	
upwardsdownwards10 mm10 mm	
— downwards 10 mm	
at the side	
— 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 17 mm	
thickness of connection bar 3 mm	
diameter of holes 9 mm	
number of holes 1	
type of connectable conductor cross-sections	
• for AWG cables for main contacts 4 250 kcmil	
connectable conductor cross-section for main contacts	
• stranded 25 120 mm²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 4 mm ²	
• finely stranded with core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	

• for auxiliary contacts $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2), \text{ max. } 2x (0.75 \dots 4 \text{ mm}^2)$ - 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) - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 1x 12 AWG number as coded connectable conductor cross 18 ... 14 section for auxiliary contacts 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 service life maximum 20 a test wear-related service life necessary Yes proportion of dangerous failures 40 % • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 73 % B10 value with high demand rate according to SN 31920 1 000 000 failure rate [FIT] with low demand rate according to SN 100 FIT 31920 ISO 13849 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 Type A **Electrical Safety** protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover **Approvals Certificates General Product Approval**









<u>KC</u>



EMV Functional Saftey Test Certificates Maritime application



Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report Miscellaneous



Maritime application other







Confirmation



Special Test Certific-

ate

Miscellaneous



other Railway Environment

<u>Confirmation</u> <u>Miscellaneous</u>







Environment

Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RT1054-6AP36

Cax online generator

 $\underline{https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1054-6AP36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AP36

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

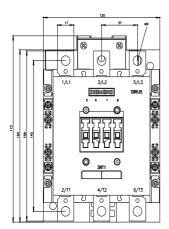
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-6AP36&lang=en

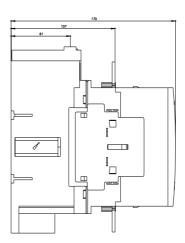
Characteristic: Tripping characteristics, I²t, Let-through current

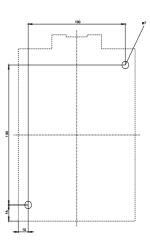
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AP36/char

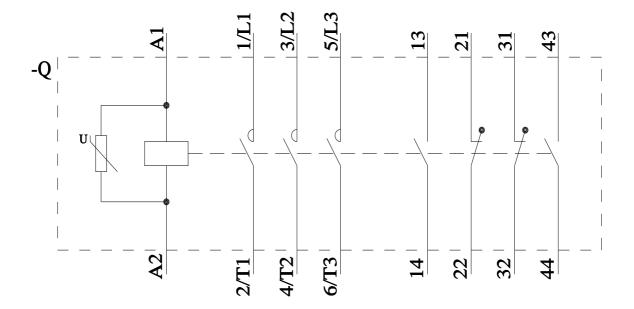
Further characteristics (e.g. electrical endurance, switching frequency)

https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6AP36&objecttype=14&gridview=view1









last modified: 11/27/2025 🖸