SIEMENS

Data sheet 3RT1054-6LA06



power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, without operating mechanism 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar 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
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	2.92 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	95 %
maximum	
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 at AC-1 	160 A
up to 690 V at ambient temperature 40 °C rated value	160 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	140 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
 up to 1000 V at ambient temperature 60 °C rated value at AC-3 	80 A
— 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
	53 A
— at 1000 V rated value	
at AC-4 at 400 V rated value at AC-5 a up to 600 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	
— 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 400 V rated value at 690 V rated value	54 A 48 A
	70 A
operational current	
• at 1 current path at DC-1	160 A
— 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-	
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 400 V for current peak value n=20 rated value 	80 000 VA
 up to 500 V for current peak value n=20 rated value 	100 000 VA
• up to 690 V for current peak value n=20 rated value	130 000 VA
• up to 1000 V for current peak value n=20 rated value	90 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	30 000 VA
 up to 400 V for current peak value n=30 rated value 	60 000 VA
• up to 500 V for current peak value n=30 rated value	80 000 VA
• up to 690 V for current peak value n=30 rated value	110 000 VA
• up to 1000 V for current peak value n=30 rated value	90 000 VA
short-time withstand current in cold operating state up to	

40 °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
limited 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	
closing delay	
• 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	Without operating mechanism
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	2
contact	-
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 at 110 V rated value	1 A
at 110 V rated value at 125 V rated value	0.9 A
at 125 V rated value at 220 V rated value	0.9 A 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	404.6
• 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

design of the fuse link		
	— at 220/230 V rated value	
contact rating of auxillary contacts according to UL. A6081 / 6800 / dosign of the fuse link	— at 460/480 V rated value	100 hp
design of the fuse link - for short-cincuit protection of the main circuit - with type of coordination 1 required yell bype of designment 15 required with type of designment 15 required yell bype of designment 15 required with type of designment 15 required yell bype of designment 15 required yell bype of designment 15 required with refuse 15 required with refuse 15 required with refuse 15 required yell bype of designment 15 required yell bype of electrical connection 15 required of remy and current circuit or for many and control circuit or for many and control circuit or for many and control circuit or for grammatic thickness of connection bar distinction 15 required or for grammatic thickness of connection bar distinction 15 required yell of causillary contacts or for yell yet anded or for grammatic for many and control circuit or for grammatic thickness of connection bar distinction 15 required or for grammatic yep of connectable conductor cross-section 15 required in firely stranded with core end processing or for linely stranded in firely stranded with core end processing or for Invery stranded with core end processing or for Invery stranded with core end processing in for Invery stranded with core end processing or for Invery stranded with core end processing in for Invery stranded with core end processing or for Invery Stranded with core	— at 575/600 V rated value	125 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / Q600
• for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • fasterning method side-by-aide mounting • fasterning method side-by-aide mounting • fasterning method • fasterning	Short-circuit protection	
with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required statistical mounting idinension mounting position with required spatial protection of the auxiliary switch required fastening method side by side mounting fastening method side by side mounting fastening method height with side-by-side mounting with side-by-side	design of the fuse link	
	 for short-circuit protection of the main circuit 	
A	 — with type of coordination 1 required 	gG: 355 A (690 V, 100 kA)
### stallation flowers and stallation flowers all and stallation flowers al	 — with type of assignment 2 required 	
Internation		
mounting position with vertical mounting surface ++00" cotabable, with surface ++00" cotabable, with vertical mounting surface ++00" cotabable, vertical surface ++00" cotabable, vertical surface ++00" cotabable, vertical surface +	· · · · · · · · · · · · · · · · · · ·	gG: 10 A (500 V, 1 kA)
# - 2.2.ft ittable to the front and back fastening method side-by-side mounting		
Assenting method 172 mm	mounting position	
height 172 mm width 120 mm doth 170 mm required spacing Very side mounting - with side-by-side mounting 20 mm - forwards 10 mm - downwards 10 mm - downwards 0 mm - to rowards 20 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 20 mm - downwards 10 mm - forwards 20 mm - forwards <t< td=""><td>fastening method side-by-side mounting</td><td>Yes</td></t<>	fastening method side-by-side mounting	Yes
width 120 mm depth 170 mm required spacing 170 mm e with side-by-side mounting 20 mm – forwards 10 mm – downwards 10 mm – at the side 0 mm e for grounded parts 20 mm – upwards 10 mm – at the side 10 mm – downwards 10 mm – for wards 20 mm – forwards 20 mm – forwards 10 mm – downwards 10 mm – for mard circuit Connection bar • for main current circuit Connection bar • for main current circuit Screw-type terminals • of maject coil Screw-type terminals width of connection bar 17 mm witch connectable conductor cross-sections	fastening method	screw fixing
Part	height	172 mm
* with side-by-side mounting	width	120 mm
• with side-by-side mounting	depth	170 mm
forwards	required spacing	
- upwards	 with side-by-side mounting 	
downwards at the side 0 mm at the side 20 mm forwards 20 mm upwards 10 mm at the side 10 mm at the side 10 mm downwards 10 mm downwards 20 mm forwards 20 mm forwards 20 mm forwards 10 mm forwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm at the side 20 mm to main current circuit 20 mm for main current circuit 30 mm for main control circuit 30 screw-type terminals 30 mm for auxiliary contacts 30 mm for famper coll with of connection bar 30 mm for connectable conductor cross-sections 40 mm for side 30 mm for side 30 mm for AWG cables for main contacts 40 mm² solid 50 stranded 50 surveys tranded 40 surveys tranded 40 surveys tranded 40 surveys tranded 40 surveys tranded 50 surveys tranded 50 surveys (27 surveys), and 27 surveys (27 surveys), and 22 surveys (27 su	— forwards	20 mm
• for grounded parts	— upwards	10 mm
• for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - downwards - for main current circuit - for auxillary and control circuit - sorew-type terminals - screw-type terminals - screw-type terminals - for auxillary contacts - for main current circuit - for auxillary contacts - for AWG cables for main contacts - stranded - finely stranded with core end processing - for auxillary contacts - solid - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - finely stranded with core end processing - for AWG cables for auxillary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxillary contacts - solid - solid - solid - so	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards	 for grounded parts 	
- at the side	— forwards	20 mm
of live parts	— upwards	10 mm
for live parts forwards upwards upwards downwards at the side at the side Connections/ Terminals type of electrical connection for auxiliary and control circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil of magnet coil of magnet coil solid connection bar diameter of holes downwards solid connectable conductor cross-sections for AWG cables for auxiliary contacts solid connectable conductor cross-sections for auxiliary contacts solid connectable conductor cross-sections for auxiliary contacts solid conductor cross-sections finely stranded with core end processing solid conductor cross-sections for AWG cables for auxiliary contacts solid conductor cross-sections for a	— at the side	10 mm
	— downwards	10 mm
- upwards - downwards - at the side 10 mm - at the side 10 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded - finely stranded with core end processing • for auxiliary contacts • solid - solid - solid - solid or stranded - finely stranded with core end processing • for farwing contacts - solid - solid or stranded - finely stranded with core end processing • for farwing contacts - solid - solid or stranded - finely stranded with core end processing • for farwing contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - solid or stranded - solid or strande	 for live parts 	
- downwards - at the side 10 mm 10 mm 10 mm Connections/ Terminals type of electrical connection of main current circuit for auxiliary and control circuit sorew-type terminals connection bar sorew-type terminals connection bar sorew-type terminals corew-type terminals corew-t	— forwards	20 mm
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes • for AWG cables for main contacts • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • finely stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts	— upwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes nor AWG cables for main contacts • stranded finely stranded with core end processing • for auxiliary contacts • for AWG cables for main del processing • for AWG cables for main contacts • for auxiliary contacts • for AWG cables for main contacts • for auxiliary contacts • for for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar thickness of connection bar diameter of holes number of holes 1 type of connectable conductor cross-sections • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - finely stranded with core end processing • for AWG cables for auxiliary contacts - finely stranded with core end processing • for AWG cables for auxiliary contacts - Solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - Solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	— at the side	10 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil • of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes 1 type of connectable conductor cross-sections • for AWG cables for main contacts • solid • finely stranded - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded - sol	Connections/ Terminals	
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes • for AWG cables conductor cross-sections • finely stranded • for auxiliary contacts - solid - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-sections • for AWG number as coded connectable conductor cross-section	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil Screw-type terminals width of connection bar thickness of connection bar diameter of holes number of holes of nAWG cables for main contacts e stranded finely stranded with core end processing of or auxiliary contacts ye of connectable conductor cross-sections of inely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) a finely stranded with core end processing of or AWG cables for auxiliary contacts a solid or stranded b for auxiliary contacts a solid or stranded b for auxiliary contacts a finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) a finely stranded with core end processing a for AWG cables for auxiliary contacts a for AWG cables for auxiliary contacts a for AWG cables for auxiliary contacts a for AWG number as coded connectable conductor cross section 	 for main current circuit 	Connection bar
of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes 1 type of connectable conductor cross-sections of rawG cables for main contacts of stranded finely stranded with core end processing of or auxiliary contacts of or AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	 for auxiliary and control circuit 	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	 at contactor for auxiliary contacts 	Screw-type terminals
thickness of connection bar diameter of holes number of holes 1 type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid - solid - solid - 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), max. 2x (0.75 4 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts - solid - solid or stranded - solid or strande	of magnet coil	Screw-type terminals
diameter of holes number of holes 1 type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing 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), max. 2x (0.75 4 mm²) - finely stranded with core end processing 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), max. 2x (0.75 4 mm²) - finely stranded with core end processing 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)	width of connection bar	17 mm
type of connectable conductor cross-sections	thickness of connection bar	3 mm
type of connectable conductor cross-sections • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	diameter of holes	9 mm
 for AWG cables for main contacts connectable conductor cross-section for main contacts stranded connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 	number of holes	1
onnectable conductor cross-section for main contacts	type of connectable conductor cross-sections	
 ◆ stranded 25 120 mm² connectable conductor cross-section for auxiliary contacts ◆ solid or stranded ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded with core end processing ◆ for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 25 120 mm² 0.5 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12	 for AWG cables for main contacts 	4 250 kcmil
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section on the section of the secti	connectable conductor cross-section for main contacts	
 solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0,75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section	stranded	25 120 mm²
 ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing ◆ for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), max. 2x (0,75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for connectable conductor cross section 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	 solid or stranded 	0.5 4 mm²
 for auxiliary contacts — solid	 finely stranded with core end processing 	0.5 2.5 mm²
— 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	type of connectable conductor cross-sections	
 — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²) 2x (20 16), 2x (18 14), 1x 12 	for auxiliary contacts	
— finely stranded with core end processing of or AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
AWG number as coded connectable conductor cross section	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
section	• for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
	AWG number as coded connectable conductor cross	
• for auxiliary contacts 18 14		
	 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
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 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 31920	100 FIT
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	







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping





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Miscellaneous

other

Confirmation

other

Railway

Environment

Miscellaneous

Special Test Certificate

Environmental Confirmations

Further information

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=3RT1054-6LA06

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6LA06

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6LA06

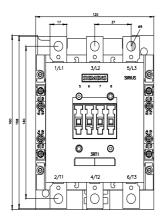
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT1054-6LA06&lang=en

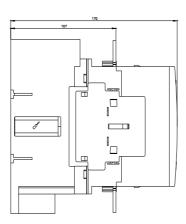
Characteristic: Tripping characteristics, I2t, Let-through current

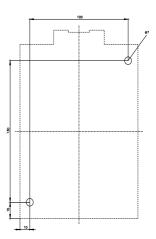
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6LA06/char

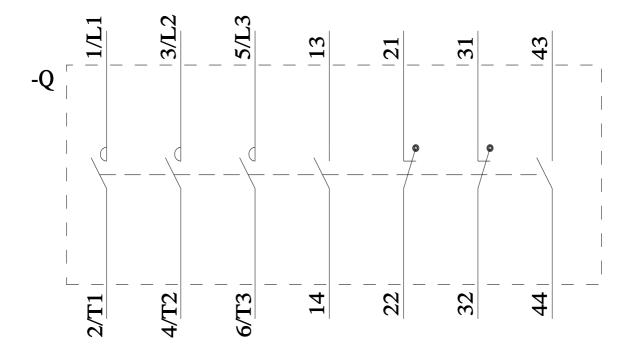
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6LA06&objecttype=14&gridview=view1









last modified: 7/19/2024 🖸