## **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 brand name	SINIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	21 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	7 W
<ul> <li>without load current share typical</li> </ul>	5.2 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	3.294 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	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 $^{\circ}\text{C}$ rated value	80 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ 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
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	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
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	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 value	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm <sup>2</sup>
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	400.0
— 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	40 kVA

• up to 400 V for current peak value n=20 rated value	80 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	100 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	130 kVA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	90 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	30 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	60 kVA
• up to 500 V for current peak value n=30 rated value	80 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	110 kVA
• up to 1000 V for current peak value n=30 rated value	90 kVA
short-time withstand current in cold operating state up to	
40 °C	0.505 A. Headrichean and a setting and to AO A metadocal as
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  Polload switching frequency	572 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	2 000 1/h
• at AC	
• at DC	2 000 1/h
operating frequency	800 1/h
• at AC 2 maximum	
• at AC 3 maximum	400 1/h
at AC-3 maximum      at AC-3e maximum	1 000 1/h 1 000 1/h
at AC-4 maximum  Control circuit/ Control	130 1/h
	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	220 240 V
at 50 Hz rated value     at 60 Hz rated value	220 240 V
at 60 Hz rated value  Approximately control country to the country to the control country to the control coun	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	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	250 VA
— at 60 Hz	250 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	
● 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	
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	4.3 VA
at minimum rated control supply voltage at Do	
at maximum rated control supply voltage at DC     at maximum rated control supply voltage at DC	5.2 VA
	5.2 VA
at maximum rated control supply voltage at DC	5.2 VA
at maximum rated control supply voltage at DC     apparent holding power	5.2 VA 4.8 VA
at maximum rated control supply voltage at DC  apparent holding power     at minimum rated control supply voltage at AC	

— at 50 Hz	5.8 VA
— at 50 пz — at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	0.0 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	00 05
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	40 00
• 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
<ul> <li>at 48 V rated value</li> </ul>	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]	
<ul> <li>for single-phase AC motor</li> </ul>	
— 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the main circuit	

	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)
## Or short-circul protection for the auxiliary evilide required installation mounting position    With vertical mounting surface +5.0° rotatable, with vertical mounting surface +5.0° rotatable to municipal surface +5.0° rotatable +5.0° ro		
mounting position with vertical mounting surface +/-20" rotatable, with vertical mounting surface +/-22" fillate to the front and back strateming method side-by-side mounting for the screw fixing server fixing method secrew fixing secrem fixing secrew fixing secrem fi		
mounting position  virtue retical mounting surface +/-52° stratate to the front and back  fastering method side-by-side mounting fastering method  legith  virtue  vir	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
fastening method side-by-side mounting  fastening method height witch 120 mm depth witch 120 mm  depth with side-by-side mounting  • for required spacing  • for spacing spacing spacing  • for spacing spacing spacing  • for spacing spacin	Installation/ mounting/ dimensions	
Asserting method	mounting position	
Medith	fastening method side-by-side mounting	Yes
width   120 mm   170 mm   required spacing     with side-by-side mounting	fastening method	screw fixing
required spacing  - with side by-side mounting  - forwards - upwards - downwards - at the side - for grounded parts - trowards - upwards - the side - for grounded parts - trowards - the side - upwards - the side - downwards - the side - downwards - the side - downwards - for live parts - forwards - downwards - for live parts - forwards - upwards - downwards - the side - downwards - the side - downwards - upwards - downwards - the side - downwards - the side - downwards - to mm - forwards - upwards - to mm - forwards - the side - to mm - forwards - the side - to mm - forwards - the side - to mm - thickness of connection bar - thickness of connectable conductor cross-sections - to AWC ables for main contacts - sinded - sold of stranded - sold of stran	height	172 mm
required spacing  with side-by-side mounting  - forwards - upwards - upwards - downwards - at the side  for grounded parts - forwards - upwards - upwards - forwards - upwards - upwards - upwards - downwards - upwards - downwards - downwards - downwards - forwards - downwards - forwards - upwards - forwards - upwards - forwards - upwards - forwards - upwards - upwards - forwards - upwards - downwards - upwards - downwards - downwards - forwards - upwards - downwards - forwards - upwards - downwards - forwards - downwards - forwards - forwards - downwards - forwards -	width	120 mm
- with side-by-side mounting	depth	170 mm
forwards upwards	required spacing	
- upwards	with side-by-side mounting	
- downwards - at the side	— forwards	20 mm
- at the side  • for grounded parts  - forwards  - upwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  - un m  - downwards  - upwards  - un m  - downwards  - un m  - 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 mapher coil  **with of connection bar  **thickness	— upwards	10 mm
for grounded parts         forwards         forwards         wwards         wwards         at the side         downwards         for wards         for wards         forwards         forwards         forwards         forwards         forwards         downwards         wwards         downwards	— downwards	10 mm
forwards	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - upwards -	<ul> <li>for grounded parts</li> </ul>	
- at the side - downwards - 10 mm - 10	— forwards	20 mm
• for live parts • for live parts - forwards - upwards - upwards - downwards - at the side - at the side  Connections/Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • for main current circuit • for auxiliary contacts • of magnet coil width of connection bar  thickness of connection bar  thickness of connection bar  thickness 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 • 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 • for AWG cables for auxiliary contacts  • for aux	— upwards	10 mm
• for live parts  - forwards  - upwards  - downwards  - downwards  - at the side  10 mm  - at the side  10 mm  Connections/Terminals  type of electrical connection  • for auxiliary and control circuit  • for auxiliary contacts  • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  17 mm  thickness of connection bar  diameter of holes  9 mm  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  - for auxiliary contacts	— at the side	10 mm
forwards upwards upwards downwards at the side to man current circuit for auxiliary and control circuit for auxiliary and control circuit et a contactor for auxiliary contacts of magnet coil with of connection bar thickness of connection bar thickness of connection bar thickness of connection bar diameter of holes number of holes number of holes type of connectable conductor cross-sections for AWG cables for main contacts stranded solid or stranded finely stranded with core end processing 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 solid solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts solid solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts f	— downwards	10 mm
- upwards - downwards 10 mm - at the side 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit Connection bar screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type termina	• for live parts	
- downwards - at the side  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  • for AWG cables for main contacts • stranded connectable conductor cross-section for auxiliary contacts • 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  - solid or stranded - finely stranded with core end processing • for awxiliary 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 awxiliary contacts - solid or stranded - finely stranded with core end processing • for awxiliary contacts - solid or stranded - finely stranded with core end processing • for awxiliary contacts - for a	— forwards	20 mm
Connections/ Terminals  type of electrical connection  of or main current circuit  of magnet coil  Screw-type terminals  of magnet coil  of magnet	— 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  thickness of connection bar  diameter of holes  number of holes  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • siranded  connectable conductor cross-section for auxiliary contacts  • siranded  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 or stranded  - solid  - solid  - solid or stranded  - finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - solid or strande	— 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  diameter of holes  number of holes  1  type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  finely stranded with core end processing  • for awxiliary 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  • for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for awxiliary 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  - 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  - finely stranded wit	— at the side	10 mm
• 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 • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for main contacts • solid or stranded if inely stranded with core end processing • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  • for for auxiliary contacts  - solid - 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 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 • 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 auxiliary contacts  - solid or stranded - finely stranded with core end processing - 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	Connections/ Terminals	
• 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 • for AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for main contacts • solid or stranded if inely stranded with core end processing • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  • for for auxiliary contacts  - solid - 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 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 • 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 auxiliary contacts  - solid or stranded - finely stranded with core end processing - 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	type of electrical connection	
at contactor for auxillary contacts of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections of rawG cables for main contacts stranded connectable conductor cross-section for main contacts ostranded connectable conductor cross-section for auxiliary contacts oslid or stranded finely stranded with core end processing of auxiliary contacts - solid - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - solid o	for main current circuit	Connection bar
at contactor for auxillary contacts of magnet coil width of connection bar thickness of connection bar diameter of holes number of holes type of connectable conductor cross-sections of rawG cables for main contacts stranded connectable conductor cross-section for main contacts ostranded connectable conductor cross-section for auxiliary contacts oslid or stranded finely stranded with core end processing of auxiliary contacts - solid - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - solid o	for auxiliary and control circuit	screw-type terminals
of magnet coil      width of connection bar     thickness of connection bar     diameter of holes     number of holes	•	**
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	•	7.
thickness of connection bar  diameter of holes number of holes 1  type of connectable conductor cross-sections		• •
diameter of holes     9 mm       number of holes     1       type of connectable conductor cross-sections <ul> <li>for AWG cables for main contacts</li> <li>stranded</li> <li>stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded conductor cross-sections</li> <li>for auxiliary contacts</li> <li>for linely stranded with core end processing conductor cross-sections</li> <li>for AWG cables for auxiliary contacts conductor cross-section</li> <li>for AWG cables for auxiliary contacts conductor cross-section</li> <li>for auxiliary contacts conductor cross-section</li> </ul> 18 14           Safety related data           product function		
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 or stranded — 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)  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)  • for AWG cables for auxiliary contacts  2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  5x (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 60947-8-1 • positively driven operation according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function		
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  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  — 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  • for AWG cables for auxiliary contacts  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  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes		
of rawG cables for main contacts     connectable conductor cross-section for main contacts     ostranded     connectable conductor cross-section for auxiliary contacts     osolid or stranded     ofinely stranded with core end processing     for auxiliary contacts     osolid or stranded     of auxiliary contacts     osolid or stranded     connectable conductor cross-sections     of rauxiliary contacts     osolid or stranded     connectable conductor cross-sections     of rauxiliary contacts     osolid or stranded     consolid or stranded     connectable or safety function      of rauxiliary contacts     connectable conductor cross-sections     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function      defined by stranded with core end processing     connectable or safety function		
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 or stranded  — solid or stranded  — 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  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  25 120 mm²  26 120 mm²  26 4 mm²  27 (0.5 4 mm²)  28 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  28 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)  29 (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  • positively driven operation according to IEC 60947-5-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function		4 250 kcmil
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		200
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 — solid or stranded — finely stranded with core end processing — 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 • for auxiliary contacts  18 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function  Yes		25 120 mm²
solid or stranded     ofinely stranded with core end processing      type of connectable conductor cross-sections     of or auxiliary contacts     — solid     — solid or stranded     — solid or stranded     — solid or stranded     — finely stranded with core end processing     of or AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     of or auxiliary contacts      in or auxili		
• finely stranded with core end processing      type of connectable conductor cross-sections     • for auxiliary contacts     — solid     — solid or stranded     — solid or 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     • for auxiliary contacts      **Safety related data**  product function     • mirror contact according to IEC 60947-4-1     • positively driven operation according to IEC 60947-5-1     • suitable for safety function      **Suitable for safety function**  **Outcome and processing out of the conductor cross section out of the conductor cross out of the conduc	-	0.5 4 mm <sup>2</sup>
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 auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  • for auxiliary contacts  Yes  • suitable for safety function  • for safety function  • suitable for safety function  Yes		
<ul> <li>for auxiliary contacts <ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section <ul> <li>for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section <ul> <li>for auxiliary contacts</li> </ul> </li> <li>18 14</li> </ul> <li>Safety related data  <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul> </li> <li>Yes</li> <li>suitable for safety function</li>		
- 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 • suitable for safety function Yes	••	
- solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section - for auxiliary contacts  Safety related data  product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 - suitable for safety function  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (20 16), 2x (18 14), 1x 12  2x (20 16), 2x (18 14), 1x 12  Yes  No  Yes	•	2x (0.5
— finely stranded with core end processing  • for 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  • for auxiliary contacts  18 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes		
for AWG cables for auxiliary contacts  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      positively driven operation according to IEC 60947-5-1      suitable for safety function      ves  Yes  No  Yes		
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  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes		
section  • for auxiliary contacts  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes		ΔΛ (ΔΟ 10), ΔΛ (10 17), 1Λ 1Δ
Product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes	section	18 14
product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  Yes  Yes		10 14
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>Yes</li> </ul>		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul> No Yes	•	
• suitable for safety function Yes	-	
·		
suitability for use safety-related switching OFF  Yes		
service life maximum 20 a	service life maximum	20 a

with low demand rate according to SN 31920     with high demand rate according to SN 31920     7	Yes 40 %
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>7</li> </ul>	40 %
• with high demand rate according to SN 31920 7	40 %
5 5	
value with high demand rate according to SN 31920	73 %
<u> </u>	1 000 000
re rate [FIT] with low demand rate according to SN 120	100 FIT
13849	
ice type according to ISO 13849-1	3
rdimensioning according to ISO 13849-2 necessary	Yes
61508	
ety device type according to IEC 61508-2	Type A
strical Safety	
tection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
ch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
ovals Certificates	

General Product Approval









<u>KC</u>



EMV Functional Saftey Test Certificates Marine / Shipping



Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report

**Miscellaneous** 



Marine / Shipping other









Miscellaneous

Confirmation

other Railway Environment

**Miscellaneous** 

Confirmation

Special Test Certificate



Siemens EcoTech



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=3RT1054-6AP36

Cax online generator

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

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, ...)

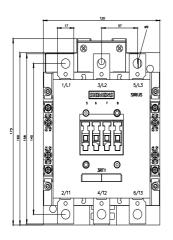
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6AP36&lang=en

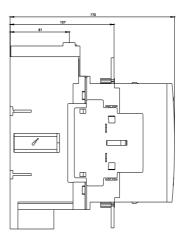
Characteristic: Tripping characteristics, I2t, Let-through current

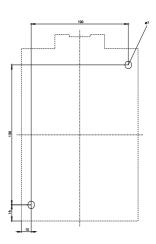
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AP36/cha

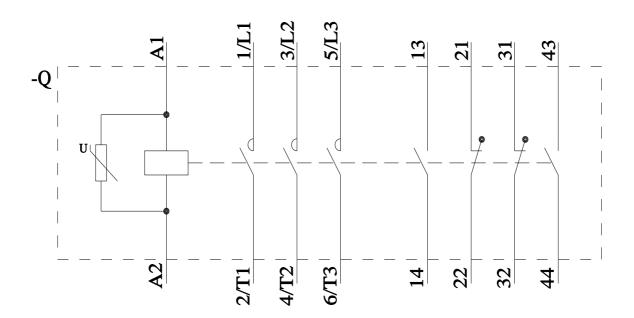
Further characteristics (e.g. electrical endurance, switching frequency)

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









last modified:

4/17/2025

