## SIEMENS

## Data sheet

## 3RT1054-2AP36



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: spring-loaded terminal

<u>01</u>	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
Seneral 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	3.27 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
global warming potential [CO2 eq] total	379 kg
global warming potential [CO2 eq] during manufacturing	17 kg
global warming potential [CO2 eq] during sales	0.901 kg
global warming potential [CO2 eq] during operation	363 kg
global warming potential [CO2 eq] after end of life	-2.28 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	100 A
<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 $^\circ \mathrm{C}$ rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 $^\circ\mathrm{C}$ rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	11F A
— at 400 V rated value	115 A
— at 500 V rated value	115 A 115 A
— at 690 V rated value — at 1000 V rated value	53 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	97 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	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	53 A
value	
• 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
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> <li>— up to 1000 V for current peak value n=30 rated</li> </ul>	98 A 53 A
minimum cross-section in main circuit at maximum AC-1 rated	53 A 70 mm <sup>2</sup>
value 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	48 A

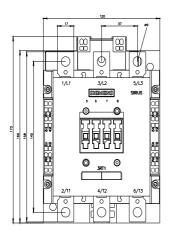
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	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	
up to 230 V for current peak value n=20 rated value	40 kVA
• up to 200 v tor current peak value II-20 rateu value	

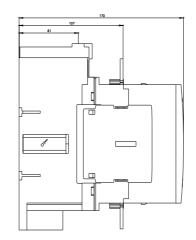
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	80 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	100 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	130 kVA
<ul> <li>up to 1000 V for current peak value n=20 rated value</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
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	80 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	110 kVA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	90 kVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 565 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 654 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	729 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	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-3e maximum	130 1/h
Control circuit/ Control	
	AC/DC
type of voltage of the control supply voltage	ACIDO
control supply voltage at AC	220 240 1/
• 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	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	
at minimum rated control supply voltage at AC	
— at 50 Hz	250 VA
	250 VA 250 VA
— at 50 Hz — at 60 Hz	
— at 50 Hz	250 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> </ul>	250 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul>	250 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> </ul>	250 VA 300 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul> apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul> apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	250 VA 300 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul> apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul> inductive power factor with closing power of the coil	250 VA 300 VA 300 VA 300 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 0.9 0.9
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9 4.3 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul> apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> at 60 Hz <ul> <li>at 60 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 0.9 0.9
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>apparent holding power</li> <li>at minimum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9 4.3 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at minimum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at minimum rated control supply voltage at AC</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9 4.3 VA 5.2 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> </ul> apparent pick-up power of magnet coil at AC <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> inductive power factor with closing power of the coil <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> at 60 Hz <ul> <li>at 60 Hz</li> </ul> apparent holding power <ul> <li>at maximum rated control supply voltage at DC</li> <li>at maximum rated control supply voltage at DC</li> <li>at minimum rated control supply voltage at AC</li> <li>at 50 Hz</li> </ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9 4.3 VA 5.2 VA 4.8 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at maximum rated control supply voltage at AC</li> <li>at 60 Hz</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>at</li></ul>	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9 4.3 VA 5.2 VA

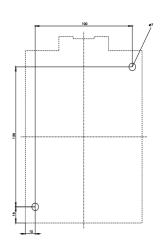
— at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
inductive power factor with the holding power of the coil	3.0 VA
at 50 Hz	0.8
• at 60 Hz	0.8
closing power of magnet coil at DC	360 W
	5.2 W
holding power of magnet coil at DC	5.2 W
closing delay	20 05 mg
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	40 00
• at AC	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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 125 V rated value	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	124 A
• at 600 V rated value	125 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	25 hp
• for 3-phase AC motor	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
— at 575/600 V rated value	125 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the 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	

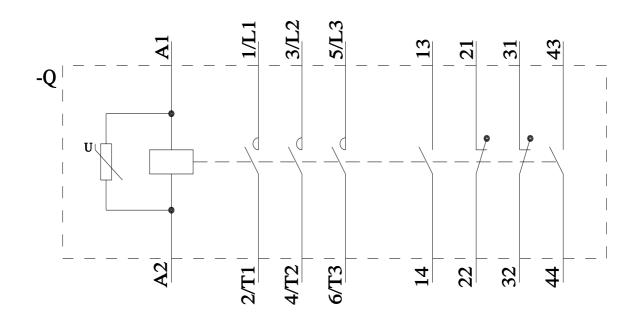
- with type of assignment 2 required 95: 250 4 (800 V, 100 kA), akk: 200 A (800 V, 100 kA), BS88: 250 A (44 50 A) installation mounting demonstors mounting position installation mounting demonstors mounting position it astening method ade-by-side mounting if astening method ade-by-side mounting if astening method ade-by-side mounting if astening method ade-by-side mounting if astening method if astening if	— with type of coordination 1 required	gG: 355 A (690 V, 100 kA)	
i.or short-circul protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/mounting/dimensions       with vertical mounting surface -/30° rotatable, with vertical mounting surface         fastening method side-by-side mounting       Yes         fastening method       screw fxing         height       172 mm         width       120 mm         depth       170 mm         required spacing       0 mm         - lowards       20 mm         - dowards       10 mm         - dowards       10 mm         - dowards       10 mm         - at the side       0 mm         - downwards       10 mm         - downwards <td< td=""><td></td><td>gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50</td></td<>		gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50	
Installation/mounting/dimensions           mounting position         with vertical mounting surface #/40° rotatable, with vertical #/40° rotatable, with vertical #/40° rot mounting #/40° rotatable, with vertical #/40° rot mount #/40° rotatable, with vertical #/40° rotanof #/40° rotatable, with vertical #/40° rotatable, #/			
mounting position         with vertical mounting surface +/.00° rotatable, with vertical mounting surface +/.00° rotatable, with vertical mounting surface +/.25° tillable to the front and back.           fastering method         screw foring           height         172 mm           width         120 mm           depth         170 mm           required spacing	· · ·	gG: 10 A (500 V, 1 kA)	
fastening method side-by-adde mounting         Yes           fastening method         screw fixing           height         172 mn           width         120 mm           depth         170 mm           required spacing         -           - forwards         20 mm           - dowwards         10 mm           - dowwards         00 mm           - dowwards         10 mm			
fastening method       screw fixing         height       172 mm         width       120 mm         depth       170 mm         required spacing       170 mm         • with also by-side mounting       -         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       0 mm         - forwards       10 mm         - upwards       10 mm         - at the side       10 mm         - forwards       10 mm         - at the side       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - for auxiliary and control circuit       spring-leaded terminals         of for main circuit       spring-leype terminals	mounting position		
height     172 mm       width     120 mm       depth     170 mm       required spacing     70 mm       - (nwards     20 mm       - (nwards     10 mm       - downwards     00 mm       - downwards     00 mm       - downwards     00 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - for grounded parts     10 mm       - forwards     20 mm       - downwards     10	fastening method side-by-side mounting	Yes	
with         120 mm           depth         170 mm           required spacing         -           - forwards         20 mm           - upwards         10 mm           - downwards         10 mm           - the side         0 mm           - upwards         10 mm           - downwards         10 mm           for auxiliary and control circuit         s	fastening method	screw fixing	
depth       170 mm         required spacing	height	172 mm	
required spacing <ul> <li>required spacing</li> <li>with side-by-side mounting</li> <li>forwards</li> <li>downwards</li> <li>for mm</li> <li>downwards</li> <li>for mm</li> <li>at the side</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>downwards</li> <li>for mm</li> <li>downwards</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> <li>of magnet coll</li> <li>spring-loaded terminals</li> <li>of magnet coll</li> <li>spring-type terminals</li> <li>straded</li> <li>a connectable conductor cross-sections</li> <li>of rawic cables for main contacts</li> <li>a straded</li> <li>a consectable conductor cross-section for auxiliary contacts</li> <li>side or stranded</li> <li>o for auxiliary contacts</li> <li>solid or stranded with core end processing</li> <li>0.25 126 mm<sup>3</sup></li> <li>o</li></ul>	width	120 mm	
• with side-by-side mounting- forwards20 mm- upwards10 mm- upwards00 mm- at the side00 mm- at the side20 mm- for grounded parts20 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards00 mm- for live parts20 mm- for live parts00 mm- forwards10 mm- downwards10 mm- forwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- for auxiliary and control circuitConnection bar- for auxiliary and control circuitSpring-lype terminals- for auxiliary contactsSpring-lype terminals- of magnet coll3 mmwitch of connection bar1 mm- for AWG cables for main contract3 mm- solid or stranded0 mm- solid or stranded0.25 120 mm <sup>2</sup> - solid or stranded0.25 120 mm <sup>2</sup> - for auxiliary contacts0.25 120 mm <sup>2</sup> - solid or stranded0.25 15 mm <sup>2</sup> - for auxiliary contacts solid or stranded0.25 15 mm <sup>2</sup> - for auxiliary contacts solid or stranded2 x (0.25 25 mm <sup>3</sup> - solid or stranded2 x (0.25	depth	170 mm	
	required spacing		
upwards10 nm downwards0 mm at the side0 mm at the side20 mm forwards20 mm upwards10 mm upwards10 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwards10 mm downwards0 mm downwards10 mm downwards5 pring-loaded terminals downwardsSpring-loaded terminals of magnet collSpring-log terminals of magnet coll3 mm diameter of holes3 mm solid or connection bar17 mm for AWG cables for main contacts4 250 kcmil solid or stranded25 120 mm <sup>2</sup> for auxiliary contacts25 120 mm <sup>2</sup> for auxiliary contacts25 120 mm <sup>2</sup> for auxiliary contacts25 120 mm <sup>2</sup> solid or stranded with core end processing025 15 mm <sup>2</sup> for auxiliary contacts	<ul> <li>with side-by-side mounting</li> </ul>		
ownwards10 mm- at the side0 mm- for grounded parts0 mm- forwards20 mm- upwards10 mm- upwards10 mm- at the side10 mm- downwards20 mm- downwards10 mm- downwards10 mm- downwards20 mm- for live parts forwards20 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwardsSpring-type terminals- of or auxiliary contactsSpring-type terminals- of manic contact9 mm- utber of holes1- type of connectable conductor cross-section for auxiliary contacts- standed25 120 mm²- solid or stranded25 120 mm²- for auxiliary contacts25 120 mm²- for auxiliary contacts25 120 mm²- solid or stranded25 15 mm²- f	— forwards	20 mm	
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• for grounded parts- forwards20 mm- upwards10 mm- uth eside10 mm- downwards10 mm- downwards20 mm- for live parts20 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards5 ming-loaded terminals- downwardsSpring-loaded terminals- for auxiliary and control circuitSpring-lype terminals- for auxiliary contactsSpring-lype terminals- of magnet coil17 mmthickness of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mm- number of holes1- straded25 120 mm²- straded0.25 25 mm²- forial stranded0.25 25 mm²- forial stranded with core end processing0.25 1.5 mm²- forial stranded with core end processing0.25 25 mm²- forial stranded with core end processing0.25 25 mm²- forial stranded2x (0.25 25 mm²)- solid or stranded2x (0.25 25 mm²)	— downwards	10 mm	
- forwards20 mm- upwards10 mm- upwards10 mm- at the side10 mm- downwards10 mm- for wards20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwards5 pring-type terminals- for auxiliary contactsSpring-type terminals- of magnet collSpring-type terminals- of magnet coll3 mmdiameter of holes9 mm- for AWG cables for main contacts4 250 kcmil- for AWG cables for main contacts5 120 mm²- of AWG cables for main contacts25 120 mm²- solid or stranded0.25 2.5 mm²- for auxiliary contacts0.25 2.5 mm²- for auxiliary contacts for auxiliary contacts-	— at the side	0 mm	
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- at the side10 mm- downwards10 mm- downwards20 mm- for live parts20 mm- nowards10 mm- upwards10 mm- downwards10 mm- at the side10 mm- at the side0 mm- at the side0 mmconnections/ TorminalsConnection bartype of electrical connectionConnection bar- for main current circuitConnection bar- of or auxiliary contactsSpring-loaded terminals- at contactor for auxiliary contactsSpring-type terminals- of or naction bar17 mm- thickness of connection bar3 mm- for num current circuit3 mm- diameter of holes9 mm- for AuVG cables for main contacts4 250 kcmil- formatic currents-section for main contacts25 120 mm²- for AuVG cables for main contacts0.25 2.5 mm²- solid or stranded0.25 2.5 mm²- solid or stranded22 (0.25 2.5 mm²- solid or stranded22 (0.25 2.5 mm²- solid or stranded22 (0.25 2.5 mm²)			
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• for live partsU- forwards20 mm- upwards10 mm- downwards10 mm- at the side10 mmconnections/TerminalsConnections/TerminalsSpring-loaded terminalsSpring-loaded terminalsSpring-lype terminalsof nagnet coilSpring-lype terminalsof nagnet coilSpring-lype terminalsof nagnet coilAdded terminalsSpring-lype terminalsof magnet coilAdded terminalsSpring-lype terminalsof magnet coilAdded to for auxiliary contactsSpring-lype terminalsof magnet coilAdded to for auxiliary contactsof nagnet coilAdded to for auxiliary contactsof auxiliary contacts <td colspa<="" td=""><td></td><td></td></td>	<td></td> <td></td>		
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upwards10 mm downwards10 mm at the side10 mmconnections/ at the sideconnections/ TerminalsConnection bar for ana current circuitSpring-loaded terminals for auxiliary and control circuitSpring-loaded terminals at the sideSpring-type terminals at contactor for auxiliary contactsSpring-type terminals of magnet coilSpring-type terminalswidth of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mm of AWG cables for main contacts4 250 kcmilconnectable conductor cross-section for auxiliary contacts	·		
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Connections/ Terminals           type of electrical connection           • for main current circuit         Connection bar           • for auxiliary and control circuit         spring-loaded terminals           • at contactor for auxiliary contacts         Spring-type terminals           • of magnet coll         Spring-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         4 250 kcmil           connectable conductor cross-section for main contacts         4 250 kcmil           connectable conductor cross-section for auxiliary contacts         0.25 120 mm²           • stranded         0.25 2.5 mm²           • solid or stranded         0.25 2.5 mm²           • finely stranded with core end processing         0.25 2.5 mm²           • for auxiliary contacts         solid           - solid         2× (0.25 2.5 mm²)           - solid or stranded         2× (0.25 2.5 mm²)			
type of electrical connection         Connection bar           • for main current circuit         Spring-loaded terminals           • at contactor for auxiliary contacts         Spring-type terminals           • of magnet coil         Spring-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         4 250 kcmil           • for AWG cables for main contacts         4 250 kcmil           connectable conductor cross-section for main contacts         25 120 mm²           of inely stranded         0.25 2.5 mm²           • finely stranded with core end processing         0.25 2.5 mm²           • for auxiliary contacts         50 m²           • for auxiliary contacts         2.5 mm²           • for auxiliary contacts         2.5 mm²		10 mm	
• for main current circuitConnection bar• for auxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminals• width of connection bar17 mm• thickness of connection bar9 mm• diameter of holes9 mm• diameter of holes9 mm• for AWG cables for main contacts4 250 kcmil• for AWG cables for main contacts25 120 mm²• stranded0.25 2.5 mm²• solid or stranded0.25 2.5 mm²• finely stranded with core end processing0.25 1.5 mm²• for auxiliary contacts0.25 2.5 mm²• for auxiliary contacts25 1.5 mm²• for auxiliary contacts0.25 2.5 mm²• for auxiliary contacts25 1.5 mm²• for auxiliary contacts0.25 2.5 mm²• for auxiliary contacts25 1.5 mm²• for auxiliary contacts25 1.5 mm²• for auxiliary contacts25 1.5 mm²• for auxiliary contacts25 2.5 mm²• for auxiliary contacts25 2.5 mm²• for auxiliary contacts25 2.5 mm²• for auxiliary contacts21 2.5 mm²• solid or stranded22 2.5 mm²• solid or stranded22 2.5 mm² <td></td> <td></td>			
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• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminalswidth of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mmnumber of holes1type of connectable conductor cross-sections4 250 kcmil• for AWG cables for main contacts4 250 kcmilconnectable conductor cross-section for main contacts25 120 mm²• stranded0.25 2.5 mm²• solid or stranded0.25 2.5 mm²• finely stranded with core end processing0.25 2.5 mm²• for auxiliary contacts25 100 mm²• for auxiliary contacts25 2.5 mm²• for auxiliary contacts2x (0.25 2.5 mm²)			
• of magnet coilSpring-type terminalswidth of connection bar17 mmthickness of connection bar3 mmdiameter of holes9 mmnumber of holes1type of connectable conductor cross-sections4 250 kcmilof AWG cables for main contacts4 250 kcmilconnectable conductor cross-section for main contacts25 120 mm²of neutron construction for auxiliary contacts0.25 2.5 mm²of finely stranded with core end processing0.25 2.5 mm²of neutriliary contacts0.25 2.5 mm²of neutriliary contacts2x (0.25 2.5 mm²)of neutriliary contacts2x (0.25 2.5 mm²)			
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diameter of holes9 mmnumber of holes1type of connectable conductor cross-sections4 250 kcmilof or AWG cables for main contacts4 250 kcmilconnectable conductor cross-section for main contacts25 120 mm²ostranded0.25 2.5 mm²osolid or stranded with core end processing0.25 2.5 mm²of rauxiliary contacts0.25 2.5 mm²of rauxiliary contacts0.25 2.5 mm²of rauxiliary contacts0.25 2.5 mm²of rauxiliary contacts0.25 2.5 mm²of rauxiliary contacts2x (0.25 2.5 mm²)of rauxiliary contacts2x (0.25 2.5 mm²)			
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connectable conductor cross-section for auxiliary contacts• solid or stranded0.25 2.5 mm²• finely stranded with core end processing0.25 1.5 mm²• finely stranded without core end processing0.25 2.5 mm²• for auxiliary contacts0.25 2.5 mm²- solid2x (0.25 2.5 mm²)- solid or stranded2x (0.25 2.5 mm²)		25 120 mm <sup>2</sup>	
• solid or stranded         0.25 2.5 mm²           • finely stranded with core end processing         0.25 1.5 mm²           • finely stranded without core end processing         0.25 2.5 mm²           • for auxiliary contacts         2 2.5 mm²           - solid         2 x (0.25 2.5 mm²)           - solid or stranded         2 x (0.25 2.5 mm²)			
• finely stranded with core end processing0.25 1.5 mm²• finely stranded without core end processing0.25 2.5 mm² <b>type of connectable conductor cross-sections</b> -• for auxiliary contacts solid2x (0.25 2.5 mm²)- solid or stranded2x (0,25 2,5 mm²)	-	0.25 2.5 mm <sup>2</sup>	
• finely stranded without core end processing     0.25 2.5 mm²       type of connectable conductor cross-sections     -       • for auxiliary contacts     -       solid     2x (0.25 2.5 mm²)       solid or stranded     2x (0,25 2,5 mm²)			
type of connectable conductor cross-sections         • for auxiliary contacts         - solid       2x (0.25 2.5 mm²)         - solid or stranded       2x (0,25 2,5 mm²)			
<ul> <li>for auxiliary contacts         <ul> <li>solid</li> <li>2x (0.25 2.5 mm<sup>2</sup>)</li> <li>solid or stranded</li> <li>2x (0,25 2,5 mm<sup>2</sup>)</li> </ul> </li> </ul>		-	
solid     2x (0.25 2.5 mm²)       solid or stranded     2x (0,25 2,5 mm²)			
— solid or stranded 2x (0,25 2,5 mm <sup>2</sup> )	-	2x (0.25 2.5 mm²)	
	— finely stranded with core end processing	2x (0.25 1.5 mm <sup>2</sup> )	
— finely stranded without core end processing 2x (0.25 2.5 mm <sup>2</sup> )			
• for AWG cables for auxiliary contacts 2x (24 14)			
AWG number as coded connectable conductor cross section	AWG number as coded connectable conductor cross		
• for auxiliary contacts 24 14	<ul> <li>for auxiliary contacts</li> </ul>	24 14	
Safety related data	Safety related data		
product function	product function		
mirror contact according to IEC 60947-4-1     Yes	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
positively driven operation according to IEC 60947-5-1     No	<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
suitable for safety function Yes	<ul> <li>suitable for safety function</li> </ul>	Yes	

suitability for use safety						
	-related switching OFF		Yes			
service life maximum			20 a			
test wear-related servi	ice life necessary		Yes			
proportion of dangero	us failures					
<ul> <li>with low demand</li> </ul>	rate according to SN 319	920	40 %			
<ul> <li>with high demand</li> </ul>	d rate according to SN 31	1920	73 %			
	emand rate according to		1 000	000		
	ow demand rate accord		100 F	IT		
ISO 13849						
device type according	to ISO 13849-1		3			
	ording to ISO 13849-2	necessarv	Yes			
IEC 61508	<b>3</b>	,				
safety device type acc	ording to IEC 61508-2		Туре	A		
Electrical Safety	5		51			
	the front according to	IEC 60529	IP00:	IP20 with box terminal/co	ver	
-	e front according to IE			-safe, for vertical contact f		minal/cover
pprovals Certificates			July	, , , , , , , , , , , , , , , , , , , ,		
General Product Appr	roval					
General Product Appl	oval					
	CE EG-Konf.			(ال س	KC	EHC
Functional Saftey	Test Certificates			Marine / Shipping		
Type Examination Cer- tificate	Type Test Certific- ates/Test Report	<u>Special Test C</u> <u>ate</u>	<u>ertific-</u>	ABS		Lloyd's Register uts
Marine / Shipping		other				
Marine / Shipping	RMRS	other <u>Miscellanec</u>	<u>Dus</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	Confirmation
Marine / Shipping	RMRS Environment		<u>ous</u>	Confirmation	Miscellaneous	<u>Confirmation</u>
PRS				Confirmation Confirmation	Miscellaneous	Confirmation
Railway Special Test Certific- ate	Environment	Miscellaneo		Environmental Con-	Miscellaneous	Confirmation
Railway Special Test Certific- ate	Environment	Miscellaned Siemens EcoTech		Environmental Con-	Miscellaneous	Confirmation
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Railway Special Test Certific- ate urther information Information on the pao https://support.industry. Information- and Down https://www.siemens.co Industry Mall (Online of https://support.automatio Service&Support (Mar https://support.industry. Image database (prodh http://support.industry. Image database (prodh http://support.industry.	Environment	Miscellanec Siemens EcoTech /iew/109813875 Brochures,) talog/product?mlft Xorder/default.asp racteristics, FAQ ps/3RT1054-2AP3 ion drawings, 3D de.aspx?mlfb=3R et-through currer ps/3RT1054-2AP3	D=3RT10 x?lang=e is) models, iT1054-2/ nt 6/ char	Environmental Con- firmations 54-2AP36 en&mlfb=3RT1054-2AP36 device circuit diagrams AP36⟨=en		Confirmation









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