SIEMENS

Data sheet 3RT2037-1KB44



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, suitable for PLC outputs

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	1 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6.1g / 5 ms, 3.7g / 10 ms
shock resistance with sine pulse	
• at DC	9.6g / 5 ms, 5.8g / 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)	10/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	1.265 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %

relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	107 kg
global warming potential [CO2 eq] during manufacturing	5.88 kg
global warming potential [CO2 eq] during operation	102 kg
global warming potential [CO2 eq] after end of life	-0.988 kg
Main circuit	olsoo kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	050 V
•	90 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
at AC-3 — at 400 V rated value	65 A
— at 400 V rated value — at 500 V rated value	65 A
— at 690 V rated value — at 690 V rated value	47 A
• at AC-3e	47 A
	CF A
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
 at AC-5a up to 690 V rated value 	70.4 A
 at AC-5b up to 400 V rated value 	53.9 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	56.9 A
 up to 400 V for current peak value n=20 rated value 	56.9 A
 up to 500 V for current peak value n=20 rated value 	56.9 A
up to 690 V for current peak value n=20 rated valueat AC-6a	47 A
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A

1440.77	
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
at 220 V rated value at 440 V rated value	45 A 2.9 A
	1.4 A
 at 600 V rated value at 1 current path at DC-3 at DC-5 	1.4 A
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1.4
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	40 F IAM
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value — at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	37 kW
4	
 at 400 V rated value 	14.7 kW
at 690 V rated value	20 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	22.6 kVA
 up to 400 V for current peak value n=20 rated value 	39.4 kVA
 up to 500 V for current peak value n=20 rated value 	49.2 kVA
up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	15.1 kVA
up to 400 V for current peak value n=30 rated value	26.2 kVA
• up to 500 V for current peak value n=30 rated value	32.8 kVA
up to 690 V for current peak value n=30 rated value short time withstand current in cold operating state up to	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	336 A; Use minimum cross-section acc. to AC-1 rated value

 limited to 60 s switching at zero current maximum 	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
at AC-1 maximum	800 1/h
at AC-2 maximum	400 1/h
at AC-2 maximum at AC-3 maximum	700 1/h
at AC-3 maximum at AC-3e maximum	
	700 1/h
at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.2
design of the surge suppressor	with varistor
inrush current peak	2.6 A
duration of inrush current peak	50 μs
locked-rotor current mean value	0.9 A
locked-rotor current peak	2.1 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
closing power of magnet coil at DC	21.5 W
holding power of magnet coil at DC	1 W
closing delay	
• at DC	35 80 ms
opening delay	
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
· -	Standard 717 712
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	2
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	2
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	2
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	2 2 10 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	2 2 10 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	2 2 10 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	2 2 10 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	2 2 10 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	2 2 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	2 2 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	2 2 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 610 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 200 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 348 V rated value • at 48 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 410 V rated value • at 610 V rated value • at 610 V rated value • at 610 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 300 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 300 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 30 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7

• at 600 V rated value 52 A	05.4
yielded mechanical performance [hp] • for single-phase AC motor — at 1101/20 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 375/600 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value • for short-dircuit protection design of the miniature circuit breaker for short-circuit protection design of the fuse link • for short-dircuit protection of the main circuit — with type of coordination 1 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 • 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 • 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 auxili	65 A
of ro single-phase AC motor	52 A
- at 110/120 V rated value	
- at 230 V rated value 10 hp	
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 480/480 V rated value — at 575/5600 V rated value — 50 hp contact rating of auxiliary contacts according to UL. Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface fastening method side-by-side mounting fastening method fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60: #/-180" required spacing • with side-by-side mounting - forwards — upwards — downwards — 10 mm — at the side • for grounded parts — forwards — at the side — downwards — 10 mm — of low parts — upwards — at the side — downwards — 10 mm • for live parts — forwards — at the side — downwards — 10 mm — ownwards — ownw	·
at 200/208 V rated value	10 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary cortact up to 230 V design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch 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 - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - with type of assignment 2 required - with side-by-side mounting - for short-circuit protection of the auxiliary switch required - the side - by-side mounting - forwards - upwards - upwards - downwards - of mm -	
- at 460/480 V rated value 50 hp 50	
- at 575/600 V rated value 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 design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 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 Installation mounting / dimensions mounting position # /-180" rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surfac	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 250 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 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 • 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for y-125 (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80kA) gG: 125A (690 V, 100 kA), aM: 160 A (150 V, 10 kA), aM: 160 A (150 V, 10 kA), aM: 160 A (161 V in the store) — with type of assignment 2 required gG: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160 A (161 V in the store) ### Control of the sust in the store of short-circuit protection of the substitution o	50 hp
Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position ### ### ### ### ### ### ### ### ### #	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting fastening method height • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • ownwards — downwards — at the side — downwards — or ownwards — onwards — upwards — of ownwards • for grounded parts — forwards — odwnwards — odwnwards — odwnwards — of ownwards • for live parts — forwards — upwards — odwnwards — odwnwards — of ownwards — of ownwards — of ownwards — odwnwards — odwnwards — of ownwards — o	ording to UL A600 / Q600
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the main circuit — 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 Installation/ mounting/ dimensions mounting position **H-180* rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forwards backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface;	
• for short-circuit protection of the main circuit — with type of coordination 1 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 Installation/ mounting/ dimensions	short-circuit protection C characteristic: 10 A; 0.4 kA
- with type of coordination 1 required - with type of assignment 2 required - of reshort-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 - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for station possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface	
— with type of assignment 2 required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mounting surface; can be tilted forward backward by #/- 22.5° on vertical mo	ain circuit
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; fastening method side-by-side mounting Yes fastening method side-by-side mounting 114 mm width 55 mm depth 174 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — for grounded parts — at the side — downwards — at the side — formands	
Installation/ mounting/ dimensions mounting position	uired gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface fastening method side-by-side mounting Yes fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 height 114 mm width 55 mm depth required spacing with side-by-side mounting - forwards - upwards - downwards - at the side for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - forwards - upwards - in mm for live parts - forwards - upwards - for mwards - for mwards - at the side - downwards 10 mm - for live parts - forwards - upwards - upwards - to mm - upwards - for mwards - for mwards - for mwards - for mwards - to mm - downwards - to mm	xiliary switch required gG: 10 A (500 V, 1 kA)
fastening method side-by-side mounting fastening method fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 height 114 mm width 65 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side — downwards — of mm - at the side — downwards — of mm - of owards — of mm - of owards — of mm - upwards — of mm - of mwards — of mm - of mm - of mwards — of mm - of mm - of mm - of mm - of mwards — of mm - of	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 height 114 mm 114 mm width 55 mm 174 mm 174 mm 175 mm	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
height 114 mm width 55 mm depth 174 mm required spacing 10 mm • with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts 10 mm — forwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals	Yes
width 55 mm depth 174 mm required spacing 10 mm • with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — downwards 0 mm • for grounded parts 10 mm — forwards 10 mm — upwards 6 mm — downwards 10 mm • for live parts 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth 174 mm required spacing	114 mm
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — 10 mm • for grounded parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — the side — downwards 10 mm • for live parts — forwards — upwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — upwards — the side — downwards — the side — downwards — the side	55 mm
with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards • for live parts — forwards — upwards — downwards — downwards — at the side Onnections/ Terminals	174 mm
— forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals	
 upwards downwards at the side for grounded parts forwards upwards at the side downwards for live parts for live parts upwards for lownwards of or mm downwards mm downwards man downwards for mm for m	
— downwards 10 mm — at the side 0 mm ● for grounded parts 10 mm — forwards 10 mm — upwards 6 mm — downwards 10 mm ● for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	10 mm
— at the side • for grounded parts — forwards — upwards — at the side — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — to mm — upwards — upwards — downwards — at the side — downwards — at the side Connections/ Terminals	10 mm
 for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards mm upwards downwards mm downwards mm downwards mm at the side 6 mm Connections/ Terminals	10 mm
forwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm ■ for live parts forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm	0 mm
forwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm ■ for live parts forwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm	
 — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards — at the side Connections/ Terminals 	10 mm
 — at the side — downwards • for live parts — forwards — upwards — downwards — downwards — at the side Connections/ Terminals 	10 mm
 — downwards ● for live parts — forwards — upwards — downwards — at the side Connections/ Terminals 	
● for live parts — forwards — upwards — upwards — downwards — at the side Connections/ Terminals	
— forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals	
 — upwards — downwards — at the side Connections/ Terminals 	10 mm
— downwards 10 mm — at the side 6 mm Connections/ Terminals	
— at the side 6 mm Connections/ Terminals	
Connections/ Terminals	
	O IIIIII
type of electrical connection	and the second s
• for main current circuit screw-type terminals	
for auxiliary and control circuit screw-type terminals	
at contactor for auxiliary contacts Screw-type terminals	
of magnet coil Screw-type terminals	
type of connectable conductor cross-sections	ections
• for main contacts	
— solid or stranded 2x (1 35 mm²), 1x (1 50 mm²)	
— finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)	
• for AWG cables for main contacts 2x (18 2), 1x (18 1)	
connectable conductor cross-section for main contacts	or main contacts
• finely stranded with core end processing 1 35 mm ²	ssing 1 35 mm ²
connectable conductor cross-section for auxiliary contacts	or auxiliary contacts
• solid or stranded 0.5 2.5 mm²	0.5 2.5 mm ²
• finely stranded with core end processing 0.5 2.5 mm²	ssing 0.5 2.5 mm ²

type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 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)
AWG number as coded connectable conductor cross section	
for main contacts	18 1
for auxiliary contacts	20 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	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
Conoral Product Approval	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping











Confirmation

other

Railway

Environment

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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1KB44

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1KB44

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

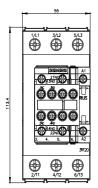
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1KB44&lang=en

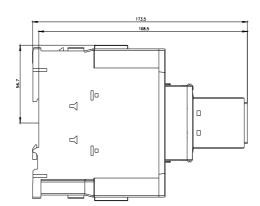
Characteristic: Tripping characteristics, I2t, Let-through current

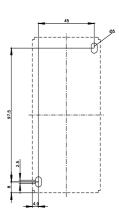
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1KB44/char

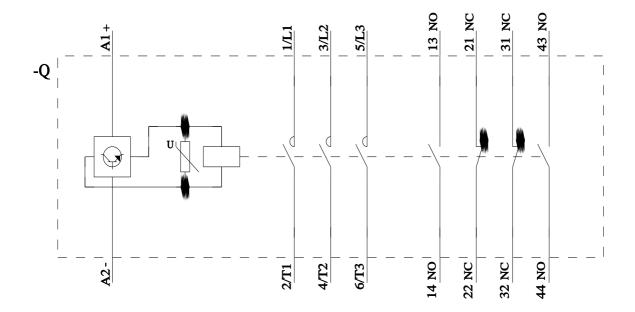
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1KB44&objecttype=14&gridview=view1









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