SIEMENS

Data sheet 3RT2037-1NB36



Power contactor, AC-3 65 A, 30 kW / 400 V 2 NO + 2 NC, AC / DC 20-33 V, with varistor 3-pole, size S2 screw terminals lateral auxiliary switch block

product brand name	SIRIUS	
product designation	Power 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 	2 W	
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 safe isolation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	5.6g / 5 ms, 3.5g / 10 ms	
• at DC	5.6g / 5 ms, 3.5g / 10 ms	
shock resistance with sine pulse		
• at AC	8.7g / 5 ms, 5.4g / 10 ms	
• at DC	8.7g / 5 ms, 5.4g / 10 ms	
mechanical service life (switching 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	
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 %
ain 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 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	80 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— 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 value	47 A
• at AC-6a	
— 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 38 A
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated 	38 A
value minimum cross-section in main circuit at maximum AC-1	25 mm²
rated value 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 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 110 V rated value	45 A

— at 440 V rated value	1 A		
— 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 110 V rated value	55 A		
— at 220 V rated value	45 A		
— at 440 V rated value	2.9 A		
— at 600 V rated value	1.4 A		
• at 1 current path at DC-3 at DC-5			
— at 24 V rated value	35 A		
— at 110 V rated value	35 A 2.5 A		
— at 220 V rated value			
— at 440 V rated value	1 A		
— at 600 V rated value	0.1 A 0.06 A		
	0.00 A		
with 2 current paths in series at DC-3 at DC-5	55.4		
— at 24 V rated value	55 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 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			
— 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		
operating power for approx. 200000 operating cycles	OT REV		
at AC-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	00.1 ((1))		
up to 230 V for current peak value n=30 rated value	15.1 kVA		
	26.2 kVA		
• up to 400 V for current peak value n=30 rated value			
• 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	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 AC	1 500 1/h		

• at DC	1 500 1/h
operating frequency	. 555
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
at AC-3 maximum	700 1/h
at AC-3e maximum at AC-4 maximum	
	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	
rated value	20 33 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
inrush current peak	3 A
duration of inrush current peak	50 μs
locked-rotor current mean value	1 A
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	40 VA
● at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	2 VA
● at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
at 48 V rated value	6 A
at 40 V rated value at 60 V rated value	6 A
at 110 V rated value	3 A
→ at 110 v rateu value	UR

• al 125 V rated value				
	• at 125 V rated value	2 A		
operational current at DC-13 at 24 Y raided value at 68 V raided value at 68 V raided value at 60 V raided value at 100 V raided value at 125 V raided value at 225 V raided value at 226 V raided value at 226 V raided value at 227 V raided value at 228 V raided value at 25 V raided value at 26 V raided value at 27 V raided value at 28 V raided value at 29 V raided value at 29 V raided value at 20 V raided value bit post of the value at 20 V raided value bit post of the value at 20 V raided value bit post of the value at 3 V raided value bit post of the value at 3 V raided value bit post of the value at 40 V raided value bit post of the value at 578/800 V raided value bit post of the value at 578/800 V raided value bit post of the value at 578/800 V raided value bit post of the value	 at 220 V rated value 	1 A		
e. at 24 V rated value	at 600 V rated value	0.15 A		
	operational current at DC-13			
	at 24 V rated value	6 A		
	at 48 V rated value			
eat 110 V rated value				
• at 128 V rated value • at 220 V rated value • at 200 V rated value • 50 hp • at 575 500 V rated value • 400 V rated value • 50 hp • 4600 V rated value • 600				
• at 220 V rated value				
• at 800 V rated value contact reliability of auxillary contacts UUCSA ratings full-load current (FLA) for 3-phase AC motor • at 800 V rated value • at 220230 V rated value • at 220230 V rated value • for 3-phase AC motor — at 200208 V rated value • at 220230 V rated value • at 220230 V rated value • at 26040 V rated value • at 50 bp — at 460480 V rated value — at 576600 V rated value — at 576600 V rated value — at 576600 V rated value — both protection design of the fuse link • for short-circuit protection of the main circuit — with type of coardination 1 required • for short-circuit protection of the main circuit — with type of coardination 1 required • for short-circuit protection of the auxiliary switch required installation/mounting/dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting — forwards — at the side — at the side — downwards — at the side — downwards — of the side				
Short-circuit protection of the main circuit				
Tull-oad current (FLA) for 3-phase AC motor at 480 V rated value \$ at 600 V rated value \$ 52 A yieldod mechanical performance [tp] • for single-phase AC motor — at 1101/120 V rated value \$ 10 hp • for 3-phase AC motor — at 2200/208 V rated value \$ 20 hp — at 2200/208 V rated value — at 2575/600 V rated value — at 2575/600 V rated value — at 4575/600 V rated value — of 50 hp — at 575/600 V rated value — of short-circul protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required • for short-circul protection of the auxiliary switch required — with type of assignment 2 required • for short-circul protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method • side-by-side mounting — forward and backward by +1-22.5° on vertical mounting surface: can be tilted according to DIN EN 60715 Yes height 114 mm width 75 mm depth — forwards — downwards — at the side • of or grounded parts — forwards — at the side • of mounting — forwards — at the side — downwards — 10 mm • of rive parts — forwards — ownwards — ownwards — ownwards — 10 mm • of rive parts — forwards — ownwards — of rive parts — forwards — ownwards	at 600 V rated value	0.1 A		
Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 65 A • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor • at 100/120 V rated value 10 hp • for single-phase AC motor • at 200/208 V rated value 20 hp • at 220/230 V rated value 50 hp • at 260/203 V rated value 50 hp • at 260/203 V rated value 50 hp • at 460/480 V rated value 50 hp • at 375/600 V rated value 50 hp • at 375/600 V rated value 50 hp • at 375/600 V rated value 50 hp • ontact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
• at 480 V rated value • at 600 V rated value • at 600 V rated value yleided mechanical performance [hp] • for single-phase AC motor — at 110/120 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 460/480 V rated value — at 375/600 V rated value — at 575/600 V rated value — both 7 respectively and the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch • 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 titled forward and backward by 4*-22.5° on vertical mounting rail according to DIN EN 60715 ##-180° mounting on the mounting and the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting	UL/CSA ratings			
• at 480 V rated value • at 600 V rated value • at 600 V rated value yleided mechanical performance [hp] • for single-phase AC motor — at 110/120 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 460/480 V rated value — at 375/600 V rated value — at 575/600 V rated value — both 7 respectively and the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch • 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 titled forward and backward by 4*-22.5° on vertical mounting rail according to DIN EN 60715 ##-180° mounting on the mounting and the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting on the mounting according to DIN EN 60715 ##-180° mounting	full-load current (FLA) for 3-phase AC motor			
• at 600 V rated value 52 A		65 A		
vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 10 hp • for 3-phase AC motor — at 2200/208 V rated value 20 hp — at 2200/208 V rated value 20 hp — at 260/308 V rated value 50 hp — at 450/480 V rated value 50 hp — at 575/600 V rated value 50 hp — at 675/600 V rated value 50 hp — at 675/600 V rated value 50 hp — at 675/600 V rated value 50 hp — at 757/600 V rated value 50 hp — at 757/600 V rated value 50 hp — at 757/600 V rated value 50 hp — at 860/400 V rated value 50 hp — at 875/600 V rated value 50 hp — at 875/600 V rated value 50 hp — at 875/600 V rated value 50 hp — with type of coordination 1 required 95 rate value 96 rate value 97 rat				
• for single-phase AC motor — at 1101/20 V rated value		52 A		
- at 110/120 V rated value - at 230 V rated value - 10 hp - 10				
■ at 230 V rated value ■ for 3-phase AC motor ■ at 200/280 V rated value ■ at 220/230 V rated value ■ at 250/230 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value ■ both protection A600 / Q600				
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — 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 auxillary contacts according to UL Short-circuit protection 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 auxillary switch required • for short-circuit protection of the auxillary switch required • for short-circuit protection of the auxillary switch required • for short-circuit protection of the auxillary switch required • for short-circuit protection of the auxillary switch required • for short-circuit protection of the auxillary switch required • side-by-side mounting dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting noto 35 mm standard mounting rall according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting - conwards - upwards - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards • for grounded parts - forwards - at the side - downwards • for live parts - forwards - forwards - upwards - forwards - upwards - forwards - forwards - upwards - u	— at 110/120 V rated value	5 hp		
- at 200/208 V rated value - at 220/230 V rated value 20 hp - at 220/230 V rated value 50 hp - at 480/480 V rated value 50 hp - at 575/600 V rated value 50 hp - at 5	— at 230 V rated value	10 hp		
at 220/230 V rated value	 for 3-phase AC motor 			
at 220/230 V rated value	 at 200/208 V rated value 	20 hp		
- at 460/480 V rated value 50 hp 50 hp 50 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required (415 V, 80 kA) (415 V, 80	— at 220/230 V rated value	·		
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection 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 • sice-by-side mounting / dimensions mounting position • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — of live parts — forwards — to mm • for live parts — forwards — downwards — downwards — downwards — of wards — upwards — of wards — of				
contact rating of auxiliary contacts according to UL Short-circuit protection 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **Fashing method** • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • ownwards — downwards — at the side — downwards — at the side — downwards — downwards — of ownwards —				
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required (415 V, 80 kA) (415 V, 80 kA) with type of assignment 2 required (415 V, 80 kA) (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (415 V, 80 kA) (415				
design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of sassignment 2 required — with type of sassignment 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 — with side-by-side mounting dimensions — side-by-side mounting — side-by-side mounting — side-by-side mounting — with side-by-side mounting — with side-by-side mounting — oforwards — upwards — odownwards — at the side — downwards — at the side — downwards — at the side — downwards — of rowards — of rowards — of wards — of or grounded parts — forwards — of or grounded parts — forwards — of ownwards — of or ilve parts — forwards — of or ilve parts — forwards — odownwards — of or wards — odownwards — of or wards — odownwards — of or wards — of ownwards — ownwards — of ownw		A600 / Q600		
• 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 gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80KA) • for short-circuit protection of the auxiliary switch required gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80KA) for short-circuit protection of the auxiliary switch required gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80KA) for short-circuit protection of the auxiliary switch gG: 125A (690V,100kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V,80 KA) gG: 125A (690V,100kA), aM: 160 A (690 V, 100 kA), aM: 160 A (100 KA)	Short-circuit protection			
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required specific protection of the auxiliary switch required for some standard mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on ver	design of the fuse link			
(415 V, 80 kA) gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415 V,80 kA) • for short-circuit protection of the auxiliary switch required required mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward seven and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting **Yes** ### With the space of the surface of the	 for short-circuit protection of the main circuit 			
(415 V, 80 kA) gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415 V,80 kA) • for short-circuit protection of the auxiliary switch required required mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface scan be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward seven and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting **Yes** ### With the space of the surface of the	 — with type of coordination 1 required 	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A		
• 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 and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting + installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting + installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting - for mm depth 114 mm ## installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## installation/ mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## installation/ mounting onto 35 mm standard mounting surface; can be tilted forwards on vertical mounting onto 35 mm standard mounting onto on vertical mounting onto 35 mm standard mounting onto on vertical mounting onto on vertical mounting onto on vertical mounting onto 35 mm standard mounting onto 35 mm standard mounting onto on vertical mounting onto on vertical mounting onto on vertical mounting onto on vertical mounting on vertical mounting onto on vertical mounting on vertical mounting onto on vertical mounting on vertical mou		(415 V, 80 kA)		
Installation/ mounting/ dimensions mounting position		(415V,80kÅ)		
Installation/ mounting/ dimensions		gG: 10 A (500 V, 1 KA)		
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting Yes height 114 mm width 75 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards — upwards — to mm • for grounded parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — ownwards — to mm • for live parts — forwards — upwards — upwards — downwards — at the side 6 mm	·			
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 114 mm width 75 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — of the side — forwards — of mm • for live parts — forwards — upwards • for live parts — forwards — upwards — upwards — downwards — of on mm • for live parts — forwards — upwards — upwards — upwards — the side — downwards — of on mm • for live parts — forwards — upwards — upwards — upwards — upwards — the side • for grounded parts — forwards — downwards — forwards — the side • for mm — upwards — the side • form 10 mm — upwards — upwar		./.4000 ();		
e side-by-side mounting Pes height 114 mm width 75 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • form — downwards — at the side • form • for live parts — forwards — upwards — upwards • for live parts — forwards — upwards — downwards — the side • for live parts — forwards — upwards — downwards — upwards — downwards • for live parts — forwards — upwards — downwards — upwards — the side • for live parts — forwards — upwards — upwards — upwards — the side • form 10 mm • for live parts — forwards — upwards — upwards — the side • form 10 mm — upwards — downwards — the side • form		forward and backward by +/- 22.5° on vertical mounting surface		
height 114 mm width 75 mm depth 130 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 • for live parts 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm	-	according to DIN EN 60715		
width 75 mm depth 130 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 — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm	, ,			
depth 130 mm required spacing • with side-by-side mounting — 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 • for live parts 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm	height	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 — at the side — downwards — the side — downwards • for live parts — forwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm — downwards — to mm — downwards — to mm	width	75 mm		
 with side-by-side mounting — forwards — upwards — downwards — at the side o mm o for grounded parts — forwards — upwards — at the side — at the side — at the side — downwards — for live parts — forwards — forwards — upwards — downwards — upwards — downwards — downwards — at the side 6 mm 	depth	130 mm		
 with side-by-side mounting — forwards — upwards — downwards — at the side o mm o for grounded parts — forwards — upwards — at the side — at the side — at the side — downwards — for live parts — forwards — forwards — upwards — downwards — upwards — downwards — downwards — at the side 6 mm 	required spacing			
— 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 — for live parts 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm				
— upwards 10 mm — downwards 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		10 mm		
— downwards — at the side of or grounded parts — forwards — upwards — at the side — at the side — downwards of for live parts — forwards — upwards — upwards — downwards 10 mm 10 mm 10 mm 10 mm of or live parts — forwards — upwards — upwards — at the side 10 mm 10 mm 10 mm 10 mm 10 mm				
 — at the side ● for grounded parts — forwards — upwards — at the side — downwards ● for live parts — forwards — upwards — upwards — downwards — downwards — downwards — downwards — at the side 0 mm 10 mm — downwards — at the side 6 mm 	•			
 for grounded parts forwards upwards at the side downwards for live parts forwards upwards upwards downwards mm downwards mm downwards at the side 6 mm 				
— forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm		U mm		
— upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm				
 — at the side — downwards for live parts — forwards — upwards — downwards — downwards — at the side 6 mm 6 mm 	— forwards	10 mm		
 — downwards ● for live parts — forwards — upwards — downwards — at the side 10 mm 10 mm 6 mm 	— upwards	10 mm		
 for live parts forwards upwards downwards at the side 10 mm 10 mm 6 mm	— at the side	6 mm		
 for live parts forwards upwards downwards at the side 10 mm 10 mm 6 mm	— downwards			
 forwards upwards downwards at the side 10 mm 10 mm 6 mm 				
 upwards downwards at the side 10 mm 6 mm 				
downwardsat the side6 mm	·	10 mm		
— at the side 6 mm	— forwards			
	— forwards — upwards	10 mm		
Connections/ Terminals	forwardsupwardsdownwards	10 mm 10 mm		
	forwardsupwardsdownwardsat the side	10 mm 10 mm		

type of electrical connection			
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			
• 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)		
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)		
connectable conductor cross-section for main contacts			
 finely stranded with core end processing 	1 35 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm²		
 finely stranded with core end processing 	0.5 2.5 mm²		
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)		
 at 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		
B10 value with high demand rate according to SN 31920	1 000 000		
proportion of dangerous failures			
 with low demand rate according to SN 31920 	40 %		
 with high demand rate according to SN 31920 	73 %		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
T1 value for proof test interval or service life according to IEC 61508	20 y		
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		
suitability for use			
 safety-related switching OFF 	Yes		
Certificates/ approvals			

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway **Dangerous Good**

Transport Informa-Confirmation Confirmation Vibration and Shock tion

Further information

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=3RT2037-1NB36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-1NB36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1NB36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB36&objecttype=14&gridview=view1

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