Data sheet 3RT2037-1NB34-3MA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6.1g / 5 ms, 3.7g / 10 ms
• at DC	6.1g / 5 ms, 3.7g / 10 ms
shock resistance with sine pulse	
• at AC	9.6g / 5 ms, 5.8g / 10 ms
• 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
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 %

lain circuit	2			
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 	80 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C rated	80 A			
value	00 A			
— up to 690 V at ambient temperature 60 °C rated	70 A			
value				
• 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			
 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	25 mm²			
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			
	ZZ A			
operational current				
at 1 current path at DC-1 at 24 V rated value	55 A			
at 24 V rated value at 60 V rated value	23 A			
— at 110 V rated value — at 110 V rated value	4.5 A			
— at 110 V rated value — at 220 V rated value	4.5 A			
	0.4 A			
— at 440 V rated value	0.4 A 0.25 A			
— at 600 V rated valuewith 2 current paths in series at DC-1	0.20 A			
— at 24 V rated value	55 A			
— at 24 V rated value — at 60 V rated value	55 A 45 A			
— at 60 V rated value — at 110 V rated value	45 A			
— at 110 v rated value — at 220 V rated value	5 A			
— at 220 V rated value — at 440 V rated value	1 A			
— at 440 V rated value — at 600 V rated value	0.8 A			
	0.0 A			
with 3 current paths in series at DC-1 at 24 V roted value.	SE A			
— 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	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 60 V rated value	6 A
— at 220 V rated value	1 A
— 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	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
operating power for approx. 200000 operating cycles at AC-	OT NYV
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	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	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h

• at AC-4 maximum Control Control Control Control Control Supply voltage Control Supply voltage at AC • at 50 Hz rated value • at 60 Hz • initial value • initial value • initial value • initial value • at 50 Hz • at 60 Hz • a	at AC-3e maximum	700 1/h
Sectoral Control Supply voltage at AC		
Control supply voltage at AC		
Control supply voltage at AC		AC/DC
* at 15 D Hz rated value 20 33 V control supply voltage at DC * rated value 20 33 V control supply voltage at DC * rated value 0 ranget coll at DC * rated value 0		
a of 16 Hz rated value 20 33 V		20 33 V
a ratic value 20 33 V		
a ratic value 20 33 V		
magnet coil at DC		20 33 V
• full-scale value operating range factor control supply voltage rated value of magnet coll at AC • at 60 Hz locked-rotor current peak locked-rotor current peak locked-rotor current peak 0 A 1 A		
• full-scale value 0.1		
Special parage factor control supply voltage rated value of magnetic cell at 160 Hz		
magnet coil at AC		1.1
• at 50 Hz design of the surge suppressor inrush current peak duration of inrush current peak 50 µs locked-rotor current mean value 1 A locked-rotor current mean value 1 A locked-rotor current mean value 40 mA apparent plack-up power of magnet coll at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 80 Hz •		
	-	0.8 1.1
design of the surge suppressor with varistor inrush current peak 3 A		
Inrush current peak 3 A duration of inrush current peak 50 µs 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 40 VA • at 50 Hz 40 VA • at 50 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 2 VA • at 50 Hz 3 VA • at 50 Hz 2 VA • at 50 Hz 3 VA • at 50 Hz 2 VA • at 60 Hz 1 W closing power of magnet coil at DC 1 W olar 60 Hz 3 S 110 ms • at DC 35 110 ms • at DC 30 55 ms • arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Abxiliary circuit 10 20 ms • at 230 V arbad value 3		
duration of inrush current peak 50 µs locked-rotor current mean value 1.A clocked-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 alt 50 Hz		
locked-rotor current mean value 1.4 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 •	· · · · · · · · · · · · · · · · · · ·	
Indicated - rotor current peak 2.6 A duration of locked-rotor current 230 ms 230 ms		
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		
An incident	·	
a parent pick-up power of magnet coil at AC 40 VA 40 VA 41 50 Hz 40 VA 40		
• at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 70 Hz • at 10		
		40 VA
apparent holding power of magnet coil at AC		
e at 60 Hz		2 VA
Closing power of magnet coil at DC		
holding power of magnet coil at DC 1 W closing delay 35 110 ms at DC 35 110 ms opening delay 4 at AC 30 55 ms at DC 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 2 number of NC contacts for auxiliary contacts instantaneous contact 2 ountact 2 operational current at AC-12 maximum 10 A operational current at AC-15 4 at 230 V rated value 6 A at 4 400 V rated value 3 A at 690 V rated value 1 A operational current at DC-12 4 at 24 V rated value 6 A at 48 V rated value 6 A 4 at 60 V rated value 6 A 4 at 22 V rated value 1 A 4		
closing delay at AC 35 110 ms e at DC 35 110 ms opening delay 20 ms e at DC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 20 ms number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 maximum 6 A e at 230 V rated value 3 A e at 400 V rated value 2 A e at 500 V rated value 1 A operational current at DC-12 10 A e at 48 V rated value 6 A e at 125 V rated value 6 A e at 220 V rated value 1 A e at 220 V rated value 1 A		1 W
• at AC • at DC opening delay • at AC • at DC 30 55 ms • at DC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact contact operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 27 V rated value • at 28 V rated value • at 38 V rated value • at 39 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 50 V rated value • at 50 V rated value • at 27 V rated value • at 48 V rated value • at 60 V rated value		
e at AC		35 110 ms
	• at DC	35 110 ms
	opening delay	
		30 55 ms
control version of the switch operating mechanism 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 10 A 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 4 V rated value • at 4 V rated value • at 4 V rated value • at 60 V rated value		
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 • at 690 V rated value 1 A operational current at DC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • 6 A	arcing time	10 20 ms
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A 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 24 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value 10 A operational current at DC-12 • at 24 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 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value	control version of the switch operating mechanism	Standard A1 - A2
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A 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 60 V rated value • at 100 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value	Auxiliary circuit	
contact operational current at AC-12 maximum 10 A operational current at AC-15 Composition of the properties of the pr		2
operational current at AC-15		2
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A 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 at 220 V rated value at 24 V rated value 	operational current at AC-12 maximum	10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A 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 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value 6 A 	operational current at AC-15	
 at 500 V rated value at 690 V rated value 1 A 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 220 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value 6 A 	• at 230 V rated value	6 A
 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 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value 6 A 	• at 400 V rated value	3 A
operational current at DC-12	• at 500 V rated value	2 A
 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 at 600 V rated value at 24 V rated value 6 A 		1A
 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 at 24 V rated value at 24 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 operational current at DC-13 at 24 V rated value 6 A 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 6 A 		
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 6 A 		
• at 220 V rated value • at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 6 A		
at 600 V rated value Operational current at DC-13 at 24 V rated value OA A A A B Comparison of the comp		
operational current at DC-13 • at 24 V rated value 6 A		
• at 24 V rated value 6 A		0.15 A
	•	
at 48 V rated value 2 A		
	at 48 V rated value	2 A

at 60 V rated value	2 A	
 at 110 V rated value 	1 A	
at 125 V rated value	0.9 A	
 at 220 V rated value 	0.3 A	
at 600 V rated value	0.1 A	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
• at 480 V rated value	65 A	
at 600 V rated value	52 A	
yielded mechanical performance [hp]		
 for single-phase AC motor 		
— at 110/120 V rated value	5 hp	
— at 230 V rated value	10 hp	
 for 3-phase AC motor 		
— at 200/208 V rated value	20 hp	
— at 220/230 V rated value	20 hp	
— at 460/480 V rated value	50 hp	
— at 575/600 V rated value	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	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)	
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions	go. 1077 (000 1, 110.)	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and	
mounting position	backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
 side-by-side mounting 	Yes	
height	114 mm	
width	55 mm	
depth	174 mm	
depth required spacing	174 mm	
	174 mm	
required spacing	174 mm	
required spacing • with side-by-side mounting		
required spacing • with side-by-side mounting — forwards	10 mm	
required spacing • with side-by-side mounting — forwards — upwards	10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards	10 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	10 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	10 mm 10 mm 10 mm 0 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	10 mm 10 mm 10 mm 0 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards	10 mm 10 mm 0 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • downwards — a forwards — forwards — ar the side — downwards • for live parts — forwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm	
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 • for live parts — forwards — upwards — upwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
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 — to rewards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — downwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
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 • for live parts — forwards — upwards — at the side — downwards • at the side — downwards — at the side — downwards — at the side	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side Connections/ Terminals	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection	10 mm 10 mm 0 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	10 mm 10 mm 0 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	10 mm 10 mm 10 mm 0 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at we side — downwards — at the side — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	10 mm 10 mm 10 mm 0 mm 10 mm screw-type terminals screw-type terminals Screw-type terminals	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	10 mm 10 mm 10 mm 0 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	10 mm 10 mm 0 mm 0 mm 10 mm Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — torwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded	10 mm 10 mm 10 mm 0 mm 10 mm Screw-type terminals screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	10 mm 10 mm 0 mm 0 mm 10 mm Screw-type terminals Screw-type terminals Screw-type terminals Screw-type terminals	

 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)	
 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	
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 a	
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

General Product Approval



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1NB34-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NB34-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB34-3MA0

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

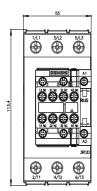
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1NB34-3MA0&lang=en

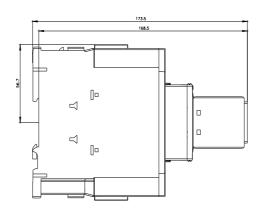
Characteristic: Tripping characteristics, I²t, Let-through current

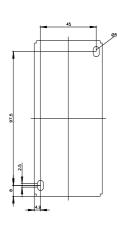
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB34-3MA0/char

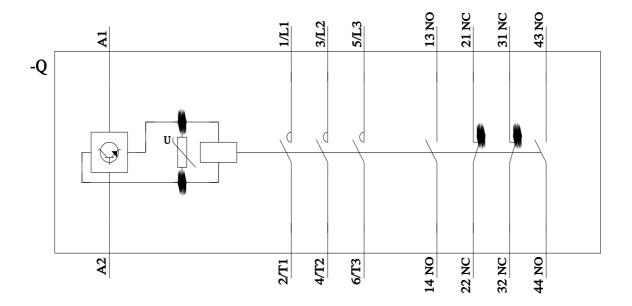
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB34-3MA0&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸