SIEMENS

Data sheet

3RT2036-1NB34-3MA0



power contactor, AC-3 51 A, 22 kW / 400 V 2 NO + 2 NC, 20-33 V AC / DC 20-33 V, with varistor, 3-pole, size S2, screw terminal 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 	12 W
 at AC in hot operating state per pole 	4 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	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 (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 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	70 A
rated value	
• at AC-1	70.4
 up to 690 V at ambient temperature 40 °C rated value 	70 A
— up to 690 V at ambient temperature 60 °C	60 A
rated value	
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
 at AC-5a up to 690 V rated value 	61.6 A
 at AC-5b up to 400 V rated value 	41.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	43.2 A
value	40.0 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
— up to 500 V for current peak value n=20 rated	43.2 A
value	
 up to 690 V for current peak value n=20 rated 	24 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	28.8 A
value	20.0.4
 up to 400 V for current peak value n=30 rated value 	28.8 A
— up to 500 V for current peak value n=30 rated	28.8 A
value	20.071
 up to 690 V for current peak value n=30 rated 	24 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	24 A
at 690 V rated value at 690 V rated value	20 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 220 V rated value	5 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
	55 A 55 A

at 440 \/ r=t=dd.	200
— 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	05.4
— at 24 V rated value	35 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 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 	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	40.01111
at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	17.2 kVA
• up to 400 V for current peak value n=20 rated value	29.9 kVA
• up to 500 V for current peak value n=20 rated value	37.4 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	11.4 kVA
 up to 400 V for current peak value n=30 rated value 	19.9 kVA
 up to 500 V for current peak value n=30 rated value 	24.9 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state	
up to 40 °C	207.4.11
limited to 1 s switching at zero current maximum	937 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	697 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	468 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	282 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	4.500.41
• at AC	1 500 1/h
• at DC	1 500 1/h
operating frequency	4 000 4 11
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
at AC-4 maximum	250 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 6 A
at 60 V rated value at 440 V rated value	
 at 110 V rated value at 125 V rated value 	3 A
	2.4
	2 A
• at 220 V rated value	1 A
at 220 V rated valueat 600 V rated value	
 at 220 V rated value at 600 V rated value operational current at DC-13	1 A 0.15 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 	1 A 0.15 A 6 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value 	1 A 0.15 A 6 A 2 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value 	1 A 0.15 A 6 A 2 A 2 A
 at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value 	1 A 0.15 A 6 A 2 A 2 A 1 A
 at 220 V rated value at 600 V rated value operational current at DC-13 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 	1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A
 at 220 V rated value at 600 V rated value operational current at DC-13 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 	1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A
 at 220 V rated value at 600 V rated value operational current at DC-13 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 	1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
 at 220 V rated value at 600 V rated value operational current at DC-13 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 oat 600 V rated value at 600 V rated value contact reliability of auxiliary contacts	1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A
 at 220 V rated value at 600 V rated value operational current at DC-13 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 	1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A

e at 600 V roted value yielded mechanical performance (hp) • for single-phase AC motor — at 101/20 V roted value — at 201/20 V roted value — at 201/20 V roted value — at 201/20 V roted value — at 401/20 V roted value — at 401/20 V roted value — at 401/20 V roted value — at 201/20 V roted value — at 401/20 V roted value — at 401/20 V roted value — at 401/20 V roted value — at 57/10 V roted value — at 57/10 V roted value — at 67/10 V roted value — with type of coordinates according to UL 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 an in-trainal 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 auxiliary switch required — for short-circuit protection of the auxiliary circuit switch and the short protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxilia	at 480 V rated value	52 A
yielded mechanical performance [hg] I of a righe phase AC motor I at 110120 V rated value I of 2-phase AC motor I at 220230 V rated value I of 2-phase AC motor I at 220230 V rated value I of 3 hp I of 2-phase AC motor I at 220230 V rated value I of 3 hp I of 2-phase AC motor I at 220230 V rated value I of 4 hp I of 2-phase AC motor I of 2-phase AC mo		
of single-phase AC motor		0271
at 101/20 V rated value at 200/208 V rated value 10 hp 10 hp 10 hp		
at 230 V rated value at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 450/480 V rated value at 450/480 V rated value at 575/600 V rated value		3 hn
of or 3-phase AC motor		·
at 200/208 V rated value at 460/480 V rated value at 575/000 V rated value with ye of coordination 1 required with type of assignment 2 required with type		10 lip
	·	15 hp
contact rating of auxiliary contacts according to UL Short-circuit protection of the main circuit of for short-circuit protection of the main circuit with type of coordination 1 required of for short-circuit protection of the auxiliary switch required of for short-circuit protection of the auxiliary switch required of for short-circuit protection of the auxiliary switch required of for short-circuit protection of the auxiliary switch required of for short-circuit protection of the auxiliary switch required of substitution in the substitution of the auxiliary switch required fastening method of sate and the substitution of the su		
Short-circuit protection design of the fuse link of short-circuit protection of the main circuit		·
design of the fuse link		A600 / Q600
for short-circuit protection of the main circuit with type of coordination 1 required for short-circuit protection of the auxiliary switch for switch swi		
with type of coordination 1 required with type of assignment 2 required for short-drouit protection of the auxiliary switch required side-by-side mounting side-by-side mounting side-by-side mounting forwards forwards forwards forwards forwards for fire side for grounded parts forwards for fire parts forwards forwards forwards for it is side for grounded parts forwards for fire parts forwards for fire parts forwards for fire parts forwards for fire parts forwards forwards for fire parts forwards		
- with type of assignment 2 required	 for short-circuit protection of the main circuit 	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 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 surface serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ***side-by-side mounting height width state in the side of the s	 — with type of coordination 1 required 	
Installation mounting following dimensions mounting position fastening method • side-by-side mounting height with depth — required spacing • with side-by-side mounting — of owards — at the side — downwards — at the side — downwards — the side — downwards — of rilve parts — forwards — of rilve parts — the side — downwards — of mounting • for grounded parts — the side — downwards — to main current circuit • for rilve parts — at the side — at the side — downwards — to main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processing		
Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting side-by-side mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface; can be tilted forward and according to 010 NEN 60715 ye side-by-side mounting side according to 010 NEN 60715 side-side mounting side according to 010 NEN 60715 side-side mounting side according to 010 NEN 60715 side-side mounting side accord and coordinated and control in out and saccording to 010 NEN 60715 side-side mounting side according to 010 NEN 60715 side mounting side according to 010 NEN 6		
mounting position fastening method • side-by-side mounting height width depth - converted spacing • with side-by-side mounting - upwards - upwards - at the side - downwards - upwards - upwards - to fire parts - forwards - upwards - downwards - downwards - to fire parts - forwards - upwards - the side - downwards - the side - downwards - the side - downwards - to fire parts - forwards - the side - downwards - upwards - the side - downwards - to fire parts - forwards - upwards - the side - downwards - to fire parts - forwards - the side - downwards - to main current circuit - for auxiliary and control circuit - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for man contacts -		gG: 10 A (500 V, 1 kA)
mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward sacrew and snap-on mounting onto 35 mm standard mounting surface; can be titled forward sacrew and snap-on mounting onto 35 mm standard mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on wettical mounting surface; can be titled forward and backward by +/- 22.5° on wettical mounting surface; can be titled forward and backward by +/- 22.5° on wettical mounting out 35 mm standard mounting and according to DIN EN 60715 Yes 10 IN M 10 mm 20	·	
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** **height** width** depth** required spacing **with side-by-side mounting** - forwards - upwards - downwards - at the side - downwards - at the side **for grounded parts - forwards - upwards - at the side - downwards - at the side - for live parts - for nawards - upwards - at the side - downwards - at the side - downwards - at the side - for man contacts - at the side - for main content circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil **type of connectable conductor cross-sections - for main contacts - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - onnectable conductor cross-section for auxiliary contacts - finely stranded with core end processing - finely stranded with core end	Installation/ mounting/ dimensions	
side-by-side mounting • side-by-side mounting height width depth 114 mm store and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes medical forms and snaper on mounting and society of the first standard mounting rail according to DIN EN 60715 Yes medical forms and snape on mounting and society of the first standard mounting rail according to DIN EN 60715 Yes medical forms and snape on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes medical forms and snape on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes medical forms and snape on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes medical for sum standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting rail according to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard mounting to DIN EN 60715 ### The first standard moun	mounting position	
e side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side — downwards — upwards — upwards — the side — downwards — upwards — of rowards — the side — downwards — the side — downwards — to mm — at the side — downwards — to mm — the side — to mm — the side —		
e side-by-side mounting height width yidth beta for main current circuit e for main contacts e for main contacts e neighbor to for main contacts connectable conductor cross-section for main contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing connectable conductor cross-section for auxillary contacts e finely stranded with core end processing e at AWG acables for main contacts e finely stranded with core end processing e at AWG acables for main contacts e finely stranded with core end processing e at AWG acables for main conta	fastening method	
height width 55 mm depth 174 mm 174 m		
width depth 174 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts — forwards 10 mm • for grounded parts — forwards 10 mm • for grounded parts 10 mm — at the side 6 firm — at the side 6 firm — at the side 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — downwards 10 mm — upwards 10 mm • for main current circuit screw-type terminals * type of electrical connection • for maxiliary and control circuit screw-type terminals • of maxiliary and control circuit screw-type terminals * of magnet coil screw-type terminals * screw-type terminals * type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	· · · · · · · · · · · · · · · · · · ·	
depth required spacing • with side-by-side mounting — forwards — upwards — at the side — of orgrounded parts — forwards — upwards — of orgrounded parts — forwards — upwards — of orgrounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — to live parts — forwards — upwards — upwards — upwards — to mm — ownwards — of main current circuit • for axiliary and control circuit • for main current circuit • of organication organication • for main current circuit • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing onnectable conductor cross-section for auxiliary contacts • finely stranded with core end processing	height	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — downwards — downwards — for live parts — forwards — forwards — upwards — forwards — upwards — forwards — upwards — upwards — upwards — upwards — upwards — upwards — at the side — of mm Connections/ Tormials type of electrical connection • for auxiliary and control circuit • for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing	width	55 mm
with side-by-side mounting forwards upwards downwards downwards for grounded parts for grounded parts forwards upwards downwards for grounded parts forwards upwards downwards for live parts for live parts downwards downwards for live parts forwards for main current circuit for main current circuit for oauxiliary and control circuit for magnet coil type of connectable conductor cross-sections finely stranded with core end processing e solid or stranded finely stranded finely stranded finely stranded finely stranded finely stranded with core end processing e solid or stranded finely stranded finely stranded with core end processing e finely stranded finely stranded with core end processing e finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing e finely stranded with core end processing finely stranded with core end processing e finely stranded with core end processing	depth	174 mm
- forwards	required spacing	
- upwards - downwards - 10 mm - at the side	with side-by-side mounting	
- downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - upwards - downwards - at the side - downwards - at the side - at the side - formain current circuit - for a uxiliary and control circuit - at contactor for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - for live parts - forwards - upwards - upwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • for main contacts - solid or stranded - finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — of mixed parts — forwards — upwards — upwards — downwards — at the side — downwards — of mixed parts — forwards — at the side — downwards — at the side — formals **Connections/Terminals** **Type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards	 for grounded parts 	
- at the side - downwards • for live parts - forwards - upwards - downwards - downwards - 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 current circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing	— forwards	10 mm
 downwards for live parts forwards upwards downwards at the side form 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 a screw-type terminals Screw-type terminals Screw-ty	— upwards	10 mm
 for live parts forwards upwards downwards at the side 6 mm 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 a for main contacts a two main contacts for main contacts - solid or stranded - solid or stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts onnectable conductor cross-section for main contacts finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts of inely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing at an an	— at the side	6 mm
forwards	— downwards	10 mm
forwards	• for live parts	
- upwards - downwards - at the side Connections/ Terminals type of electrical connection	•	10 mm
- downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • solid or stranded • solid or stranded • finely stranded with core end processing • solid or stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing	— upwards	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • for main contacts • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing one at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing one table conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one table conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one table conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one table conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one table conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one table conductor cross-section for auxiliary contacts	•	1.5.1
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 — finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing		
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 cuntacts — solid or stranded • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing one connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing		
 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 — finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing of mely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing of inely stranded of inely stranded of inely stranded of inely stranded with core end processing of inely stranded of inely stranded with core end processing of inely stranded of inely stranded with core end processing 		
 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 — finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts of inely stranded with core end processing onnectable conductor cross-section for auxiliary contacts of inely stranded of inely stranded with core end processing 	21	corous tuno terminale
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts of inely stranded with core end processing finely stranded finely stranded finely stranded with core end processing 		•
 of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts of inely stranded with core end processing finely stranded with core end processing of inely stranded with core end processing of inely stranded of inely stranded with core end processing of inely stranded of inely stranded with core end processing 		
• for main contacts		
 for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 		Screw-type terminals
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² 0.5 2.5 mm² 		
 finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing solid or stranded finely stranded with core end processing 1 35 mm² 1 35 mm² 2x (18 2), 1x (18 1) 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 		
 at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing 2x (18 2), 1x (18 1) 1 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² 		
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm²		
contacts		2x (18 2), 1x (18 1)
 finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing 1 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² 0.5 2.5 mm²		4 0= 0
contacts		1 35 mm²
 solid or stranded finely stranded with core end processing 0.5 2.5 mm² 0.5 2.5 mm² 		
• finely stranded with core end processing 0.5 2.5 mm²		0.5 0.5 mans?
type of connectable conductor cross-sections		U.5 ∠.5 mm²
	type of connectable conductor cross-sections	

• for auxiliary contacts

- solid or stranded

- finely stranded with core end processing

• at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for main contacts

• for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

18 ... 1 20 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

B10 value with high demand rate according to SN 31920 proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No

1 000 000

40 %

73 %

100 FIT

20 y

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval

EMC



Confirmation



KC





Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination **Certificate**





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping













other Railway **Dangerous Good**

Confirmation Confirmation Vibration and Shock Transport Informa-

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=3RT2036-1NB34-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1NB34-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB34-3MA0

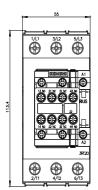
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1NB34-3MA0&lang=en

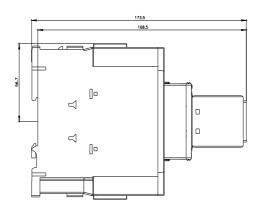
Characteristic: Tripping characteristics, I²t, Let-through current

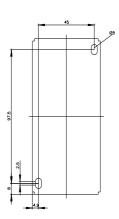
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB34-3MA0/char

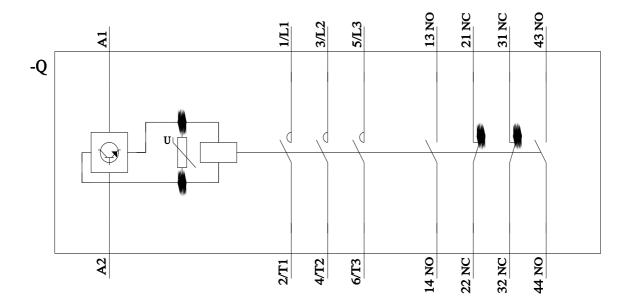
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NB34-3MA0&objecttype=14&gridview=view1









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