SIEMENS

Data sheet

3RT2036-1NB30-0CC0



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, communication-capable

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 	Yes
auxiliary switch	Yes
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	1 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	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5
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	95 %
maximum	
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 rated 	70 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	70 A
— up to 690 V at ambient temperature 60 °C rated	60 A
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 value	43.2 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 value	43.2 A
 up to 690 V for current peak value n=20 rated value 	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	28.8 A
— 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 value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— 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 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	22 HW
• at AC-2 at 400 V rated value	22 kW
• at AC-3	45 130
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value ● at AC-3e	22 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• 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	
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
limited to 30 s switching at zero current maximum	282 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	229 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	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	
 at minimum rated control supply voltage at DC 	2 VA
at maximum rated control supply voltage at DC	2 VA
apparent holding power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	2 VA
— at 60 Hz	2 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.95
• at 60 Hz	0.95
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	25 110 mg
• at AC	35 110 ms
• at DC	35 110 ms
opening delay • at AC	30 55 ms
• at AC • at DC	30 55 ms
	10 20 ms
arcing time	
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2, optionally via function module
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	IVA
operational current at AC-13	

# 42 00 V rated value		
4.050 V rated value	 at 230 V rated value 	10 A
a	 at 400 V rated value 	3 A
	 at 500 V rated value 	2 A
10 A 12 AV rated value	at 690 V rated value	1 A
# 46 8 / ratid value	operational current at DC-12	
• at 10 V rated value	 at 24 V rated value 	10 A
	 at 48 V rated value 	6 A
eat 125 V rated value	 at 60 V rated value 	6 A
• at 220 V rated value	 at 110 V rated value 	3 A
• at 800 V rated value operational current at DC-13 • at 24 V rated value • at 80 V rated value • at 80 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 22 V rated value • at 22 V rated value • at 220 V rated value • at 220 V rated value • on 23 A • at 110 V rated value • on 24 E00 V rated value • on 25 V rated value • on 26 V rated value • on 27 V rated value • on 28 V rated value • on 28 V rated value • on 28 V rated value • on 29 V rated value • of 50 v rated value • of 60 v rated	 at 125 V rated value 	2 A
Operational current at DC-13	at 220 V rated value	1 A
et 24 V rated value	at 600 V rated value	0.15 A
• at 48 V rated value	operational current at DC-13	
• at 10 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 m.A) UICSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • for single-phase AC motor • at 1400 V rated value • at 250 V rated value • for 3-phase AC motor • at 220230 V rated value • for 3-phase AC motor • at 200228 V rated value • at 500-6 v rated value • for short-circuit protection design of the fuse link • for short-circuit protection of the main circuit • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • 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-	• at 24 V rated value	10 A
■ at 110 V rated value ■ at 126 V rated value ■ at 220 V rated value ■ at 200 V rated value ■ at 800 V rated value ■ at 800480 V rated value ■ at 878800 V rated value ■ of or short-circuit protection of the main circuit ■ with type of coordination if required ■ of or short-circuit protection of the main circuit ■ with type of coordination if required ■ of or short-circuit protection of the auxiliary switch required ■ of or short-circuit protection of the auxiliary switch required ■ of or short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protection of the suxiliary switch required ■ of short-circuit protect	• at 48 V rated value	2 A
at 125 V rated value	at 60 V rated value	2 A
	 at 110 V rated value 	1 A
• at 800 V rated value Contact reliability of auxiliary contacts ### 1 faulty switching per 100 million (17 V, 1 mA) ### 140 V rated value • at 460 V rated value • at 110/120 V rated value • for shipse phase AC motor — at 110/120 V rated value • for 3-hase AC motor — at 220/230 V rated value • for 3-hase AC motor — at 220/230 V rated value • for 3-hase AC motor — at 220/230 V rated value • for 3-hase AC motor — at 220/230 V rated value • for 3-hase AC motor — at 460/480 V rated value — at 66/4080 V rated value — at 673/600 V rated value — with type of ocordination 1 required • for short-circuit protection of the main circuit — 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 main circuit — 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 main circuit — 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 main circuit — 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 main circuit — 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 main circuit — 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 main circuit — with type of assignment 2 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protect	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 52 A • at 600 V rated value 52 A • for single-phase AC motor — at 1100/120 V rated value 10 hp • for single-phase AC motor — at 220/230 V rated value 15 hp — at 220/230 V rated value 15 hp — at 220/230 V rated value 15 hp — at 220/230 V rated value 50 hp — at 220/230 V rated value 50 hp — at 240/230 V rated value 50 hp — at 460/480 V rated value 40 hp — at 460/480 V rated value 50 hp contact rating of auxiliary contacts according to UL 8600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required (Facility of the sasignment 2 required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch required (Facility of short-circuit protection of the auxiliary switch req	• at 220 V rated value	0.3 A
UUCSA ratings full-load current (FLA) for 3-phase AC motor	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 52 A • at 600 V rated value 52 A • at 600 V rated value 52 A yielded mechanical performance [tp] • for single-phase AC motor — at 110/120 V rated value 10 hp • for 3-phase AC motor — at 200/038 V rated value 15 hp — at 220/039 V rated value 50 hp — at 220/039 V rated value 50 hp — at 2575/600 V rated value 50 hp — at 7576/600 V rated value 50 hp contact rating of auxiliary contacts according to UL 56 hp contact rating of auxiliary contacts according to UL 56 hot-circuit protection of the fuse link • for short-circuit protection of the main circuit — with type of coordination of required 67 short-circuit protection of the auxiliary switch required 78 sook (690V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V.80kA) 683 (690 V, 100 kA), BS88: 63A (415V.80kA) 693 (690 V, 100 kA), BS88: 63A (415V.80kA) 693 (690 V, 100 kA), BS88: 63A (415V.	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value	UL/CSA ratings	
• at 600 V rated value 52 A	full-load current (FLA) for 3-phase AC motor	
Vielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 10 hp • for 3-phase AC motor — at 200/208 V rated value 15 hp — at 220/230 V rated value 15 hp — at 460/480 V rated value 40 hp — at 450/480 V rated value 40 hp — at 575/600 V rated value 50 hp 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 460/480 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 63A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 125 A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 50A (690V, 100kA), BS88: 125 A (415 V, 80 kA) — with type of assignment 2 required 460/480 V, 100 kA), aM: 80 A (690 V, 100 kA	• at 480 V rated value	52 A
• for single-phase AC motor — at 1101/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — 15 hp — at 220/230 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 60/480 V rated value — at 60/490 V rated value	at 600 V rated value	52 A
	yielded mechanical performance [hp]	
■ at 230 V rated value ■ for 3-phase AC motor ■ at 220/230 V rated value ■ at 260/230 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value ■ 50 hp 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 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 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 switch required	 for single-phase AC motor 	
for 3-phase AC motor — at 200/208 V rated value — at 420/280 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — on the first 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 — with type of assignment 2 required — tor short-circuit protection of the auxiliary switch required — with type of assignment 2 required — with stallation/ mounting/dimensions ##-180" rotation possible 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	— at 110/120 V rated value	3 hp
- at 200/208 V rated value	— at 230 V rated value	10 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value contact rating of auxililary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required of statallation/mounting/dimensions mounting position #/180" rotation possible 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 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	 for 3-phase AC motor 	
- at 460/480 V rated value - at 575/600 V rated value 50 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection	— at 200/208 V rated value	15 hp
- at 575/600 V rated value 50 hp 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 gc. 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required for for short-circuit protection of the auxiliary switch required gc. 10 A (500 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required gc. 10 A (500 V, 1 kA) 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 • side-by-side mounting • side-by-side mounting **Yes height **unity **H-180" rotation possible 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 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	— at 220/230 V rated value	15 hp
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 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **-/180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" 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 DIN rail according to DIN EN 60715 **e side-by-side mounting **ulth mm width **depth 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting • with side-by-side mounting - forwards — downwards — at the side • for grounded parts — forwards — forwards — towards — towards — oupwards — forwards — towards — towards — towards — upwards — forwards — upwards — forwards — towards — towards — forwards — forwards — towards — towa	— at 460/480 V rated value	40 hp
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) — with type of assignment 2 required gG: 80A (690 V, 100kA), aM: 50A (690 V, 100kA), BS88: 63A (415 V, 80kA) • for short-circuit protection of the auxiliary switch required gG: 80A (690 V, 100kA), aM: 50A (690 V, 100kA), BS88: 63A (415 V, 80kA) Installation/ mounting/ dimensions **T-180** rotation possible 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 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 vert	— at 575/600 V rated value	50 hp
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • 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; 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 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 surface.		A600 / P600
• 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 Installation/ mounting/ dimensions with side-by-side mounting with side-by-side mounting		
- with type of coordination 1 required gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) with type of assignment 2 required of or short-circuit protection of the auxiliary switch required gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kA) gG: 10 A (500 V, 1 kA) 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 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 oscrew and sna	design of the fuse link	
with type of assignment 2 required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward 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 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 +/-	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward 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 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 surface surface surface surface surface surface s	— with type of coordination 1 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side • for wards — upwards — to mm • for grounded parts — forwards — upwards — upwards — upwards — at the side • formards — upwards — on mm - at the side • formards — upwards — upwards — at the side • formards — upwards — at the side • form	— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
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 DIN rail according to DIN EN 60715 Yes height 114 mm width 55 mm depth 130 mm required spacing ● with side-by-side mounting — forwards — upwards — at the side ● for grounded parts — forwards — upwards — forwards — to mm ● for grounded parts — forwards — upwards — at the side ● o mm	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
backward by +/- 22.5° on vertical mounting surface fastening method side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing with side-by-side mounting - forwards - upwards - at the side for grounded parts - forwards - upwards - upwards - forwards - the side for grounded parts - forwards - upwards - upwards - the side for grounded parts - forwards - upwards - at the side for grounded parts - forwards - upwards - upwards - the side for grounded parts - forwards - upwards - at the side for grounded parts - forwards - upwards - at the side for mm	Installation/ mounting/ dimensions	
● side-by-side mounting height #width #wid	mounting position	+/-180 $^\circ$ rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5 $^\circ$ on vertical mounting surface
height 114 mm width 55 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 — forwards 10 mm — at the side 0 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 55 mm depth 130 mm required spacing	side-by-side mounting	Yes
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	height	114 mm
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for mm - at the side • for grounded parts — forwards — at the side 6 mm	width	55 mm
 with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards at the side for mm forwards upwards at the side 6 mm 	depth	130 mm
— forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 0 mm — forwards 10 mm — upwards 10 mm — at the side 6 mm	required spacing	
— upwards 10 mm — downwards 10 mm — at the side 0 mm ● for grounded parts 0 mm — forwards 10 mm — upwards 10 mm — at the side 6 mm	with side-by-side mounting	
 — downwards — at the side ● for grounded parts — forwards — upwards — at the side 10 mm 10 mm 6 mm 	— forwards	10 mm
 — at the side ● for grounded parts — forwards — upwards — at the side 0 mm 10 mm 6 mm 	— upwards	10 mm
 for grounded parts forwards upwards at the side for mm 6 mm 	— downwards	10 mm
 forwards upwards at the side 10 mm 6 mm 	— at the side	0 mm
upwardsat the side6 mm	 for grounded parts 	
— at the side 6 mm	— forwards	10 mm
	— upwards	10 mm
— downwards 10 mm	— at the side	6 mm
	— downwards	10 mm

• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
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)
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)
 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
suitability for use safety-related switching OFF	Yes
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
Certificates/ approvals	

Certificates/ approvals General Product Approval



Confirmation





<u>KC</u>



Functional
EMC Safety/Safety of Machinery Declaration of Conformity Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



ConfirmationConfirmationVibration and ShockTransport InformationEnvironmental 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=3RT2036-1NB30-0CC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1NB30-0CC0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30-0CC0

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

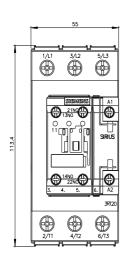
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1NB30-0CC0&lang=en

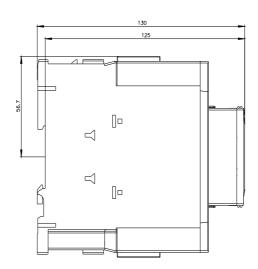
Characteristic: Tripping characteristics, I2t, Let-through current

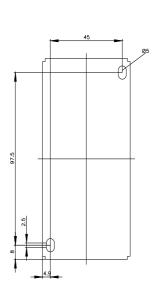
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30-0CC0/char

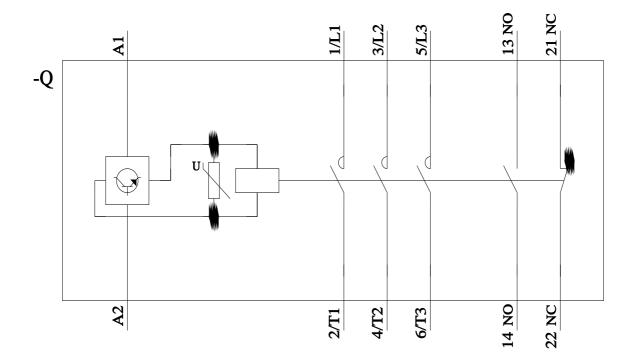
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NB30-0CC0&objecttype=14&gridview=view1









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