3RT1056-6NB36-3PA0

Data sheet



power contactor, AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC operation 21-27 AC/DC, 3 V auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 busbar connections drive: electronic with PLC interface 24 V DC screw terminal auxiliary contact lateral permanently mounted SUVA application

product branchianic	011100
product designation	Power contactor
product type designation	3RT1
eneral technical data	
size of contactor	S6
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	39 W
 at AC in hot operating state per pole 	13 W
 without load current share typical 	2.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
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

SIRIUS

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V
operational current	1 000 V
•	215 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	215 A
rated value	
— up to 690 V at ambient temperature 60 °C	185 A
rated value	
up to 1000 V at ambient temperature 40 °C	100 A
rated value	
— up to 1000 V at ambient temperature 60 °C	100 A
rated value	
• at AC-3	405.4
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
 at AC-4 at 400 V rated value 	160 A
 at AC-5a up to 690 V rated value 	189 A
 at AC-5b up to 400 V rated value 	153 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	157 A
value	
 up to 400 V for current peak value n=20 rated 	157 A
value	
— up to 500 V for current peak value n=20 rated	157 A
value	157 A
 up to 690 V for current peak value n=20 rated value 	157 A
— up to 1000 V for current peak value n=20 rated	65 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	105 A
value	
— up to 400 V for current peak value n=30 rated	105 A
value	
— up to 500 V for current peak value n=30 rated	105 A
value	407.4
— up to 690 V for current peak value n=30 rated	105 A
value	GE A
 up to 1000 V for current peak value n=30 rated value 	65 A
minimum cross-section in main circuit at maximum AC-1	95 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	81 A
• at 690 V rated value	65 A
operational current	
• at 1 current path at DC-1	

— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
 at AC-2 at 400 V rated value 	90 kW
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	45 kW
at 690 V rated value	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
• up to 500 V for current peak value n=20 rated value	130 000 VA
• up to 690 V for current peak value n=20 rated value	180 000 VA
up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	

 up to 230 V for current peak value n=30 rated value 	40 000 VA
 up to 400 V for current peak value n=30 rated value 	70 000 VA
 up to 500 V for current peak value n=30 rated value 	90 000 VA
 up to 690 V for current peak value n=30 rated value 	120 000 VA
 up to 1000 V for current peak value n=30 rated 	110 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 1's switching at zero current maximum Ilmited to 5 s switching at zero current maximum	2 084 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 60 s switching at zero current maximum	801 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	oo 1 A, ose minimum cross-section acc. to Ao-1 rated value
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	1 000 1111
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
• at AC-4 maximum	130 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	21 27.3 V
at 60 Hz rated value	21 27.3 V
control supply voltage at DC	
rated value	21 27.3 V
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to	20 mA
IEC 60947-1 maximum	
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
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
apparent pick-up power of magnet coil at AC	200 \/A
● at 50 Hz ● at 60 Hz	280 VA 280 VA
- 0.00112	200 VA
inductive power factor with closing power of the coil • at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	4.4 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.5
• at 60 Hz	0.5
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	
• at AC	35 75 ms
• at DC	35 75 ms

opening delay		
a PDC		
acting time control version of the switch operating mechanism Auditing circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 300 V rated value • at 600 V rated value • at 60 V rated value •		
Control version of the switch operating mechanism Auditory circuit Instantaneous contact Instantaneous contact for auxiliary contacts according to UL Instan		
Auxiliary circuit runther of NC contacts for auxiliary contacts runther of NC contacts for auxiliary contacts runther of NC contacts for auxiliary contacts operational current at AC-15 • at 230 V rated value • at 800 V rated value • at 800 V rated value • at 804 V rated value • at 804 V rated value • at 804 V rated value • at 805 V rated value • at 807 V rated value • at 808 V rated value • at 809 V rated val		
number of NC contacts for auxiliary contacts 2		PLC-IN or Standard A1 - A2 (adjustable)
instantaneous contact Instantaneous contact Instantaneous contact Instantaneous contact Instantaneous contact Instantaneous contact Operational current at AC-12 maximum Operational current at AC-18		
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 800 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 80 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 80 V rated value • at 10 V rated value • at 10 V rated value • at 10 V rated value • at 25 V rated value • at 220 V rated value • at 20 V rated value • at 800 V rated value • at 8	instantaneous contact	
Operational current at AC-15		2
ear 230 V rated value	operational current at AC-12 maximum	10 A
at 400 V rated value	operational current at AC-15	
• at 500 V rated value 2 A	at 230 V rated value	6 A
• at 690 V rated value • at 48 V rated value • at 48 V rated value • at 80 V rated value • at 125 V rated value • at 126 V rated value • at 260 V rated value • at 260 V rated value • at 600 V rated value • at 800 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 220 V rated value • at 600 V rated value • at 200 V rated value • at 300 V rated value • at 600 V rated value • for single-phase AC motor • at 220/230 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • for short-circuit protection of the main circuit • with type of assignment 2 required • with t	 at 400 V rated value 	3 A
a		2 A
at 24 V rated value	at 690 V rated value	1 A
	operational current at DC-12	
at 160 V rated value	at 24 V rated value	10 A
e at 110 V rated value e at 125 V rated value 1 A e at 125 V rated value 1 A e at 600 V rated value 0.15 A operational current at DC-13 e at 24 V rated value 2 A e at 60 V rated value 1 0 A e at 48 V rated value 2 A e at 60 V rated value 2 A e at 60 V rated value 2 A e at 110 V rated value 9 A e at 125 V rated value 9 A e at 125 V rated value 9 A e at 220 V rated value 9 A e at 600 V rated value 180 A e at 600 V rated value 9 A e at 600 V rated value 192 A yielded mechanical performance [hp] e for single-phase AC motor — at 230 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 220/230 V rated value 9 for 3-phase AC motor — at 220/230 V rated value 9 for 3-phase AC motor — at 220/230 V rated value 9 for 3-phase AC motor — at 220/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 250/230 V rated value 9 for 3-phase AC motor — at 60 b p 75 bp 460 bp 67 for bort-circuit protection design of the fuse link 9 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 9 for short-circuit protection of the auxiliary switch 150 hp 9 for short-circuit protection of the auxiliary switch 150 hp 9 for short-circuit protection of the auxiliary switch 150 hp 9 for short-circuit protection of the main circuit 9 for short-circuit protection of the auxiliary switch 150 hp 150	at 48 V rated value	6 A
■ at 125 V rated value ■ at 220 V rated value ■ at 200 V rated value ■ at 600 V rated value ■ at 60 V rated value ■ at 110 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 200 V rated value ■ at 575600 V rated value ■ at 575600 V rated value ■ at 575600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 575600 V rated value ■ at 600 V rated value ■ at 575600 V rated value ■ at 600 V rated value ■ at 200208 V rated value ■ at 200208 V rated value ■ at 600 V rated value ■ at 200208 V rated value ■ at 600 V rated value	• at 60 V rated value	6 A
at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value 10 A at 48 V rated value 2 A at 48 V rated value 2 A at 600 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 4 A at 600 V rated value 5 A at 125 V rated value 9 A at 600 V rated value 9 A at 600 V rated value 10 A 3 A at 600 V rated value 10 A at 600 V rated value 9 A at 600 V rated value 10 A at 600 V rated value 11 A at 600 V rated value 12 A at 600 V rated value 13 A b rated value 14 A at 600 V rated value 15 B at 600 V rated value 15 B at 600 V rated value 15 B at 600 V rated value 200 bp at	at 110 V rated value	3 A
e at 600 V rated value operational current at DC-13 e at 24 V rated value at 48 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 20 V rated value at 600 V rated value at 500 V rated value for 3-phase AC motor - at 200 V rated value at 500 V rated value at 500 V rated value - at 500 V rated value - at 575 kg0 V rated value - at 600 V g600 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 coordination 1 required - with type of coordination 1 required - with type of condination 1 required - with type of coordination 1 required - with type of assignment 2 required with vertical mounting surface +/-90° rotatable, with vertic	• at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 170 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 480 V rated value • at 480 V rated value • at 1800 V rated value • at 1800 V rated value • for single-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 480/480 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 5-phase AC motor • at 270/208 V rated value • for 3-phase AC motor • at 270/208 V rated value • for 5-phase AC motor • at 270/208 V rated value • for 5-phase AC motor • at 270/208 V rated value • for 5-phase AC motor • at 280/208 V rated value • for 5-phase AC motor • at 60/480 V rated value • for 5-phase AC motor • at 860/480 V rated value • for 5-phase AC motor • at 870/208 V rated value • for 60 hp • 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 main circuit • for short-circuit protection of t	• at 220 V rated value	1 A
at 24 V rated value at 48 V rated value 2 A at 148 V rated value 2 A at 110 V rated value 3 1 A at 125 V rated value 3 1 A at 125 V rated value 3 A at 125 V rated value 3 A at 120 V rated value 3 A at 600 V rated value 3 A at 600 V rated value 3 A at 600 V rated value 4 At 80 V rated value 5 A Talogs full-load current (FLA) for 3-phase AC motor 4 At 80 V rated value 5 A Talog V rated value 5 A Talog V rated value 6 A Talog V rated value 7 A Talog V rated value 9 A Talog V rated V	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value 2 A at 110 V rated value 3 1 110 V rated value 3 1 110 V rated value 3 1 22 V rated value 3 1 600 V rated value 3 1 600 V rated value 4 1 600 V rated value 5 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor 4 1 480 V rated value 5 1 80 A 4 1 600 V rated value 9 1 80 A 9 1 600 V rated value 9 1 92 A yielded mechanical performance [hp] 6 for single-phase AC motor - at 230 V rated value 9 60 hp - at 220/230 V rated value 7 5 hp - at 460/480 V rated value - at 220/230 V rated value 7 5 hp - at 460/480 V rated value 9 150 hp - at 575/600 V rated value 200 hp - at 575/600 V rated va	operational current at DC-13	
at 160 V rated value at 110 V rated value 1 1 A at 125 V rated value 0.9 A at 220 V rated value 0.3 A at 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 1 180 A at 600 V rated value 2 00 hp at 600 V rated value 2 00 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link at 600 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) at 600 V, 100 kA) at 600 V, 100 kA) at 600 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) at 600 V, 100 k	 at 24 V rated value 	10 A
at 110 V rated value at 125 V rated value 3 t 220 V rated value 3 t 200 V rated value 3 t 200 V rated value 3 t 300 V rated value 4 t 300 V rated value 5 t 300 V rated value 5 t 480 V rated value 5 t 480 V rated value 5 t 5 t 5 t 6 t 7 t 7 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t 8	at 48 V rated value	2 A
at 125 V rated value at 220 V rated value 2	 at 60 V rated value 	2 A
e at 220 V rated value e at 600 V rated value Contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value 180 A 192 A 192 A 192 A 192 A 192 A 192 A 193 A 194 A 195 A 195 A 196 A 197 A 198 A 199 A	• at 110 V rated value	1 A
at 600 V rated value contact reliability of auxiliary contacts ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 460/480 V rated value — at 475/600 V rated value — at 475/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at williary 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 gG: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing yes height	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 192 A yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/230 V rated value — at 460/480 V rated value — at 475/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — with ye of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position 180 A 1	at 220 V rated value	0.3 A
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	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor	UL/CSA ratings	
• at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value • at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 200 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 — 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-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 •	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 200/208 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 200 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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back • side-by-side mounting • side-by-side mounting 172 mm	• at 480 V rated value	180 A
 for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value for hp at 200/230 V rated value for p at 460/480 V rated value for p at 575/600 V rated value bp at 575/600 V rated value bp 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 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tillable to the front and back screw fixing side-by-side mounting yes height	• at 600 V rated value	192 A
- at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/330 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing • side-by-side mounting Yes height 172 mm	yielded mechanical performance [hp]	
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — 200 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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing Yes height 172 mm 	for single-phase AC motor	
 for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — 200 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 — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing Yes height 172 mm 		30 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 200 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 - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position at 220/ hp 200	• for 3-phase AC motor	
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 200 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 - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position at 220/ hp 200	— at 200/208 V rated value	60 hp
- at 460/480 V rated value - at 575/600 V rated value 200 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 - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position The position The position	— at 220/230 V rated value	
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting height 200 hp A600 / Q600 A600 V, 100 kA) gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes height	— at 460/480 V rated value	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position A600 / Q600 A600 V, 100 kA) gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes height A600 / Q600	— at 575/600 V rated value	
design of the fuse link		·
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 — of or short-circuit protection of the auxiliary switch required — gG: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) — of or short-circuit protection of the auxiliary switch required — with type of assignment 2 required — with type of assignment		
 with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method side-by-side mounting height gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) 	•	
— with type of assignment 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method of side-by-side mounting required with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes height 172 mm	·	gG: 355 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method side-by-side mounting yes height 172 mm 		gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method		
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing ◆ side-by-side mounting Yes height 172 mm	· .	
surface +/- 22.5° tiltable to the front and back fastening method	-	with vertical mounting surface +/-90° rotatable, with vertical mounting
● side-by-side mounting Yes		
height 172 mm	fastening method	screw fixing
	side-by-side mounting	Yes
width 120 mm	height	172 mm
	width	120 mm

depth	170 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	10 11111
— forwards	20 mm
	10 mm
— upwards — downwards	
	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	17 mm
thickness of connection bar	3 mm
diameter of holes	9 mm
number of holes	1
type of connectable conductor cross-sections	
at AWG cables for main contacts	4 250 kcmil
connectable conductor cross-section for main contacts	
stranded	25 120 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	27 (20 10), 27 (10 17), 17 12
section	
for auxiliary contacts	18 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
• Illinoi contact according to IEC 00947-4-1	No
 positively driven operation according to IEC 60947- 5-1 	
5-1	1 000 000
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC	1 000 000 IP00; IP20 with box terminal/cover
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
5-1 B10 value with high demand rate according to SN 31920 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 on	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover No
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover





Confirmation







EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





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

Type Test Certificates/Test Report

Marine / Shipping

other











Miscellaneous

other

Railway

Confirmation

Miscellaneous

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

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=3RT1056-6NB36-3PA0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1056-6NB36-3PA0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6NB36-3PA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6NB36-3PA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6NB36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6NB36-3PA0&objecttype=14&gridview=view1

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