3RT1056-6NP36-3PA0

Data sheet



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General 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 protective separation 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 (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)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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	
ain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
• 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 $^{\circ}\text{C}$ rated value	215 A
— up to 690 V at ambient temperature 60 °C rated value	185 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	105 A
— 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	405 A
— 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 value 	157 A
 up to 400 V for current peak value n=20 rated value 	157 A
 up to 500 V for current peak value n=20 rated 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 value 	65 A
at AC-6a	
	40F A
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A
— up to 1000 V for current peak value n=30 rated value	65 A
ninimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	04.0
at 400 V rated value at 600 V rated value	81 A
at 690 V rated value	65 A
operational current	
at 1 current path at DC-1 at 24 V reted value.	400 A
— at 24 V rated value	160 A
— at 60 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 60 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 60 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 60 V rated value	7.5 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 60 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 60 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-	
at 400 V rated value	45 kW
at 400 V rated value at 690 V rated value	65 kW
operating apparent power at AC-6a	OS RVV
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 up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	110 000 471
• 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 400 V for current peak value n=30 rated value 	90 000 VA
 up to 500 V for current peak value n=30 rated value 	120 000 VA
 up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 	110 000 VA
- ap to 1000 v for current peak value II-30 fateu value	TIO OOO VA

short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value
Iimited 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
limited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value
limited 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 i 71, ose miliiman cross section dec. to 710 i i died value
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	1 000 1/11
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	100 1/11
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	7.0.20
at 50 Hz rated value	200 277 V
at 60 Hz rated value at 60 Hz rated value	200 277 V 200 277 V
control supply voltage at DC	200 211 V
• rated value	200 277 V
operating range factor control supply voltage rated value of	200 211 V
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
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	190 VA
— at 60 Hz	190 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	280 VA
— at 50 Hz	280 VA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
apparent holding power	
 at minimum rated control supply voltage at DC 	2.1 VA
at maximum rated control supply voltage at DC	2.8 VA
apparent holding power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	3.5 VA
— at 60 Hz	3.5 VA
 at maximum rated control supply voltage at AC 	
— at 50 Hz	4.8 VA
— at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.6

a st 0 h2	-+ 00 11-	0.0
Action A		
Second pelacy		
* at AC		2.8 W
## DC 35 75 ms		
Section Sect		
* al C		35 75 ms
## ADC ## Acriting time control version of the switch operating mechanism Auxillary circuit ***Control Version of the switch operating mechanism Auxillary circuit ***Control Version of the switch operating mechanism Auxillary circuit ***Control Version of Michael School (Control Control Contro		
arcing time	• at AC	80 90 ms
Activalisty circuit	• at DC	80 90 ms
Auditary circuit number of NC contacts for auxiliary contacts instantaneous ordered number of NC contacts for auxiliary contacts instantaneous operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Contact	Auxiliary circuit	
Contact Cont		2
operational current at AC-15 • at 230 V rated value		2
• at 230 V rated value	operational current at AC-12 maximum	10 A
• at 400 V rated value 2 A • at 900 V rated value 1 A	operational current at AC-15	
• at 500 V rated value 1A • at 900 V rated value 1A Operational current at DC-12 • at 24 V rated value 6A • at 48 V rated value 6A • at 40 V rated value 6A • at 100 V rated value 6A • at 100 V rated value 7A • at 220 V rated value 7A • at 24 V rated value 7A • at 250 V rated value 7A • at 24 V rated value 7A • at 25 V rated value 7A • at 26 V rated value 7A • at 27 V rated value 7A • at 28	at 230 V rated value	6 A
• at 890 V rated value	at 400 V rated value	3 A
• at 890 V rated value	at 500 V rated value	2 A
0		
• at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 1125 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 128 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value •		
• at 48 V rated value 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	•	10 A
at 160 V rated value		
at 110 V rated value		
at 125 V rated value		
1 A		
• at 600 V rated value		
e at 24 V rated value		
at 24 V rated value at 48 V rated value 2 A at 60 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 1 A at 125 V rated value 3 0.9 A at 220 V rated value 3 0.1 A contact reliability of auxiliary contacts UUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 600 V rated value 192 A yielded mechanical performance [hp] of or single-phase AC motor at 220 V rated value 5 of 3-phase AC motor at 220 V rated value 6 of 3-phase AC motor at 200/208 V rated value 5 of 3-phase AC motor at 200/208 V rated value 75 hp at 460/480 V rated value 150 hp at 460/480 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit with type of assignment 2 required gG: 315 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA) gG: 316 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) with vertical mounting verface +/-90° rotatable, with vertical mounting surface with vertical mounting surface +/-90° rotatable, with v		0.15 A
at 48 V rated value at 60 V rated value at 175 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value before 3 phase AC motor at 230 V rated value at 230 V rated value befor 3 phase AC motor at 230 V rated value befor 3 phase AC motor at 220/230 V rated value befor 3 phase AC motor at 220/230 V rated value befor 3 phase AC motor at 260/480 V rated value befor 3 phase AC motor at 260/480 V rated value befor 3 phase AC motor at 260/480 V rated value befor 3 phase AC motor at 460/480 V rated value befor 3 phase AC motor at 600 phase AC moto	•	10 A
at 60 V rated value at 110 V rated value at 125 V rated value 0.9 A at 125 V rated value 0.3 A at 800 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 600 V rated value 192 A yielded mechanical performance [hp] of or single-phase AC motor at 230 V rated value 5 or 3-phase AC motor at 220/230 V rated value 6 oh p at 220/230 V rated value 75 hp at 460/480 V rated value 75 hp at 460/480 V rated value 75 hp at 460/480 V rated value 75 hp 6 ontact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 315 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 gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface with vertical mounting surface by or a series of the surface of the vertical mounting surface with vertical mounting surface by or rotatable, with vertical mounting surface with vertical mounting surface by or a series of the vertical mounting surface with vertical mounting surface by or rotatable, with vertical mounting surface		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.1 A Contact reliability of auxiliary contacts I 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 at 600 V rated value for single-phase AC motor at 230 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 460/480 V rated value for 3-phase AC motor at 460/480 V rated value for bord-circuit protection Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit with type of assignment 2 required gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 10 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) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
at 125 V rated value at 220 V rated value at 800 V rated value 0.1 A contact reliability of auxiliary contacts I 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 at 600 V rated value for single-phase AC motor - at 230 V rated value at 200/208 V rated value - at 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 60/480 V rated value - at 200/208 V rated		
at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 600 V rated value 192 A yielded mechanical performance [hp] of or single-phase AC motor at 230 V rated value 30 hp of or 3-phase AC motor at 230 V rated value 60 hp at 220/230 V rated value 75 hp at 460/480 V rated value 150 hp at 450/480 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or 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 of 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 gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) uniting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface		
at 600 V rated value 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] of or single-phase AC motor at 230 V rated value 50 hp of or 3-phase AC motor at 200/208 V rated value 60 hp at 220/230 V rated value 75 hp at 460/480 V rated value 150 hp at 450/5060 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit — 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 for short-circuit protection of the auxiliary switch required and first and for son violation of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-		
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 1 at 480 V rated value 1 80 A 1 at 600 V rated value 1 92 A yielded mechanical performance [hp] 1 for single-phase AC motor 1 at 230 V rated value 1 for 3-phase AC motor 1 at 200/208 V rated value 1 for 3-phase AC motor 1 at 200/208 V rated value 1 for hp 1 at 460/480 V rated value 1 for hp 1 at 460/480 V rated value 1 for hp 1 at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link 1 for short-circuit protection of the main circuit - with type of coordination 1 required 5 for short-circuit protection of the main circuit - with type of assignment 2 required 5 for short-circuit protection of the auxiliary switch required 5 for short-circuit protection of the auxiliary switch required 5 g: 355 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) 1 for short-circuit protection of the auxiliary switch required 9 g: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
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 230 V rated value • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • 60 hp — at 220/230 V rated value — at 220/230 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 gG: 355 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value 180 A 192 A yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220/208 V rated value • for 3-phase AC motor — at 220/208 V rated value • 60 hp — at 220/230 V rated value — at 460/480 V rated value — at 675/600 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 gG: 315 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface		1 faulty switching per 100 million (17 V, 1 mA)
 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 60 hp at 220/230 V rated value 75 hp at 460/480 V rated value at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required 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) for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface 	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 200/208 V rated value • 60 hp — at 220/230 V rated value — at 460/480 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 gG: 355 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	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 60 hp — at 220/230 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 of short-circuit protection	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 — at 220/230 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 — on the fuse link • for 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 Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface		192 A
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required • for short-circuit protection of the auxiliary switch required of short-circuit protection of the short-circuit protection of the auxiliary switch required of short-circuit protection of the short-circ	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 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 A600 / Q600 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) — with type of assignment 2 required 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 Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	 for single-phase AC motor 	
- at 200/208 V rated value 60 hp - at 220/230 V rated value 75 hp - at 460/480 V rated value 150 hp - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 355 A (690 V, 100 kA) — with type of assignment 2 required 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	— at 230 V rated value	30 hp
- at 220/230 V rated value - at 460/480 V rated value 150 hp 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 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 Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface	• for 3-phase AC motor	
- 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 9G: 355 A (690 V, 100 kA) - with type of assignment 2 required 9G: 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) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface	— at 200/208 V rated value	60 hp
- at 575/600 V rated value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — 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 vertical mounting surface +/-90° rotatable, with vertical mounting surface	— at 220/230 V rated value	75 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 Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface	— at 460/480 V rated value	150 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 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	— at 575/600 V rated value	200 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 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	contact rating of auxiliary contacts according to UL	A600 / Q600
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 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	Short-circuit protection	
 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 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) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface 		
— 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) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface	-	
— with type of assignment 2 required 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) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	·	gG: 355 A (690 V 100 kA)
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	*	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	— with type of assignment 2 required	
Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	• for short-circuit protection of the auxiliary switch required	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
		with vertical mounting surface +/-90° rotatable, with vertical mounting surface
	· • • · · · · ·	

fastening method	screw fixing
 side-by-side mounting 	Yes
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	
— forwards	20 mm
— upwards	10 mm
— 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
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 mm ²
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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	
section	
for auxiliary contacts	18 14
afety 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	No
B10 value with high demand rate according to SN 31920	1 000 000
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	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover





Confirmation







Functional
Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

<u>KC</u>



Type Examination Certificate

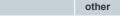




Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Confirmation

other

Railway

Miscellaneous

Miscellaneous

Special Test Certificate

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=3RT1056-6NP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6NP36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6NP36-3PA0

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

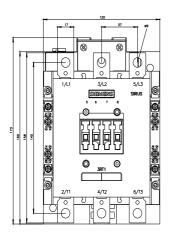
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6NP36-3PA0\&lang=en}}$

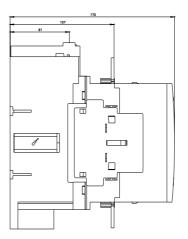
Characteristic: Tripping characteristics, I2t, Let-through current

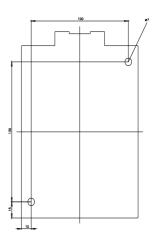
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6NP36-3PA0/char

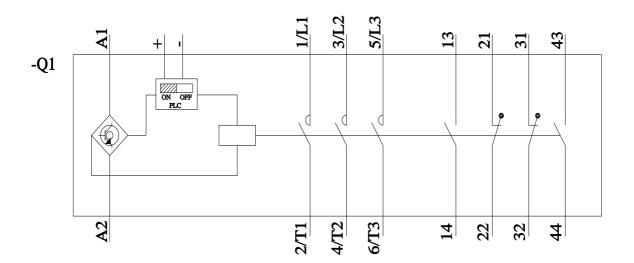
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6NP36-3PA0&objecttype=14&gridview=view1









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10/5/2023

