SIEMENS

Data sheet

3RT2047-3NB34-3MA0



Power contactor, AC-3 110 A, 55 kW / 400 V 2 NO + 2 NC, 20-33 V AC/DC 3-pole, 3 NO, Size S3 Spring-type terminal Integrated varistor Captive auxiliary switch

product designation Power contactor product type designation 3RT2 General technical data Size of contactor size of contactor S3 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 23.7 W • at AC in hot operating state per pole 7.9 W • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 6.7 g / 5 ms, 4.0 g / 10 ms • at AC 10.6 g / 5 ms, 6.3 g / 10 ms • at AC 10.6 g / 5 ms, 6.3 g / 10 ms • at AC 10.6 g / 5 ms, 6.3 g / 10 ms • at D	product brand name	SIRIUS
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installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C	Substance Prohibitance (Date)	03/01/2017
ambient temperature • during operation -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	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 	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 	130 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	130 A
rated value	
— up to 690 V at ambient temperature 60 °C	110 A
rated value	
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
 — at 1000 V rated value • at AC-3e 	30 A
• at AC-3e — at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	97 A
 at AC-5a up to 690 V rated value 	120 A
at AC-5b up to 400 V rated value	110 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	98 A
value	
— up to 400 V for current peak value n=20 rated	98 A
value	00.4
 — up to 500 V for current peak value n=20 rated value 	98 A
— up to 690 V for current peak value n=20 rated	98 A
value	
● at AC-6a	
 up to 230 V for current peak value n=30 rated 	65.3 A
value	65.3 A
 — up to 400 V for current peak value n=30 rated value 	00.0 A
— up to 500 V for current peak value n=30 rated	65.3 A
value	
— up to 690 V for current peak value n=30 rated	65.3 A
value minimum cross-section in main circuit at maximum AC-1	50 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	46 A
at 690 V rated value	36 A
operational current	
• at 1 current path at DC-1	100 A
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A 0 6 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
 with 2 current paths in series at DC-1 — at 24 V rated value 	100 A
- al 24 v raleu Value	

at 110 V rated value	400 A		
— at 110 V rated value	100 A		
— at 220 V rated value	10 A		
— at 440 V rated value	1.8 A		
— at 600 V rated value	1 A		
• with 3 current paths in series at DC-1			
— at 24 V rated value	100 A		
— at 110 V rated value	100 A		
— at 220 V rated value	80 A		
— at 440 V rated value	4.5 A		
— at 600 V rated value	2.6 A		
 at 1 current path at DC-3 at DC-5 			
— at 24 V rated value	40 A		
— at 110 V rated value	2.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.15 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	100 A		
— at 110 V rated value	100 A		
— at 220 V rated value	7 A		
— at 440 V rated value	0.42 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	100 A		
— at 110 V rated value	100 A		
— at 220 V rated value	35 A		
— at 440 V rated value	0.8 A		
— at 600 V rated value	0.35 A		
operating power			
 at AC-2 at 400 V rated value 	55 kW		
• at AC-3			
— at 230 V rated value	30 kW		
— at 400 V rated value	55 kW		
— at 500 V rated value	75 kW		
— at 690 V rated value	90 kW		
— at 1000 V rated value	37 kW		
• at AC-3e			
— at 230 V rated value	30 kW		
— at 400 V rated value	55 kW		
— at 500 V rated value	75 kW		
— at 690 V rated value	90 kW		
— at 1000 V rated value	37 kW		
operating power for approx. 200000 operating cycles			
at AC-4			
 at 400 V rated value 	24.3 kW		
at 690 V rated value	32.9 kW		
operating apparent power at AC-6a			
• up to 230 V for current peak value n=20 rated value	39 kVA		
 up to 400 V for current peak value n=20 rated value 	67 kVA		
 up to 500 V for current peak value n=20 rated value 	84 kVA		
 up to 690 V for current peak value n=20 rated value 	117 kVA		
operating apparent power at AC-6a			
 up to 230 V for current peak value n=30 rated value 	26 kVA		
 up to 400 V for current peak value n=30 rated value 	45.2 kVA		
 up to 500 V for current peak value n=30 rated value 	56.5 kVA		
 up to 690 V for current peak value n=30 rated value 	78 kVA		
short-time withstand current in cold operating state			
up to 40 °C	1.060 A: Lloo minimum groce contine and to A.C. 4 stad value		
 limited to 1 s switching at zero current maximum limited to 5 a switching at zero surrent maximum 	1 960 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	1 502 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	1 095 A; Use minimum cross-section acc. to AC-1 rated value		

 limited to 30 s switching at zero surrout maximum 	707 A: Use minimum cross section acc. to AC 1 rated value		
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	707 A; Use minimum cross-section acc. to AC-1 rated value		
Imited to 60 s switching at zero current maximum no-load switching frequency	562 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency • at AC	1 000 1/h		
• at DC	1 000 1/h 1 000 1/h		
operating frequency			
• at AC-1 maximum	900 1/h		
• at AC-2 maximum			
• at AC-3 maximum	350 1/h 850 1/h		
• at AC-3e maximum	850 1/h		
• at AC-4 maximum	200 1/h		
Control circuit/ Control	200 m		
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC	Acide		
at 50 Hz rated value	20 33 V		
at 60 Hz rated value	20 33 V		
control supply voltage at DC	20 33 V		
rated value	20 33 V		
operating range factor control supply voltage rated	20		
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	6.5 A		
duration of inrush current peak	50 μs		
locked-rotor current mean value	3.2 A		
locked-rotor current peak	6.5 A		
duration of locked-rotor current	150 ms		
holding current mean value	75 mA		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	151 VA		
• at 60 Hz	151 VA		
apparent holding power of magnet coil at AC			
• at 50 Hz	3.5 VA		
• at 60 Hz	3.5 VA		
closing power of magnet coil at DC	76 W		
holding power of magnet coil at DC	2.7 W		
closing delay			
• at AC	50 70 ms		
● at DC	50 70 ms		
opening delay			
● at AC	38 57 ms		
● at DC	38 57 ms		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous contact	2		
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	6 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1 A		
operational current at DC-12			

 at 24 V rated value 	10 A		
 at 48 V rated value 	6 A		
 at 60 V rated value 	6 A		
 at 110 V rated value 	3 A		
 at 125 V rated value 	2 A		
 at 220 V rated value 	1A		
 at 600 V rated value 	0.15 A		
operational current at DC-13			
at 24 V rated value	6 A		
at 48 V rated value	2 A		
at 60 V rated value	2 A		
at 110 V rated value	1A		
at 125 V rated value	0.9 A		
at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	96 A		
• at 600 V rated value	99 A		
yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	10 hp		
— at 230 V rated value	20 hp		
 for 3-phase AC motor 			
— at 200/208 V rated value	30 hp		
— at 220/230 V rated value	40 hp		
— at 460/480 V rated value	75 hp		
— at 575/600 V rated value	100 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
5 , 5			
Short-circuit protection			
Short-circuit protection			
design of the fuse link			
design of the fuse linkfor short-circuit protection of the main circuit	aG: 250 A (690 V 100 kA) aM: 160 A (690 V 100 kA) BS88: 200 A		
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)		
design of the fuse linkfor short-circuit protection of the main circuit			
 design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required 	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A		
 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 	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)		
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	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA)		
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	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
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 fastening method	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715		
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 fastening method • side-by-side mounting	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes		
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 fastening method • side-by-side mounting	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm		
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 fastening method • side-by-side mounting height width	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
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 fastening method • side-by-side mounting height width depth	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm		
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 fastening method • side-by-side mounting height width depth required spacing	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
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 fastening method • side-by-side mounting height width depth	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
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 fastening method • side-by-side mounting height width depth required spacing	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	(415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - gowards	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 10 mm		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 10 mm 0 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 0 mm 20 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards - upwards - upwards - upwards	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 10 mm 0 mm 20 mm 10 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — at the side	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 		
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards	 (415 V, 80 kA) gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 198 mm 20 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 		

— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit 	spring-loaded terminals		
at contactor for auxiliary contacts	Spring-type terminals		
of magnet coil	Spring-type terminals		
type of connectable conductor cross-sections			
for main contacts			
— finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)		
at AWG cables for main contacts	2x (10 1/0), 1x (10 2)		
connectable conductor cross-section for main contacts			
• solid	2.5 16 mm²		
stranded	6 70 mm²		
 finely stranded with core end processing 	2.5 50 mm ²		
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 mm ²		
 finely stranded without core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0.5 2.5 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm ²)		
— finely stranded without core end processing	2x (0.5 2.5 mm ²)		
at AWG cables for auxiliary contacts	2x (20 16)		
AWG number as coded connectable conductor cross			
section			
 for main contacts 	10 2		
for auxiliary contacts	20 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947- 5-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		
proportion of dangerous failures			
 with low demand rate according to SN 31920 	40 %		
with high demand rate according to SN 31920	73 %		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
suitability for use			
 safety-related switching on 	No		
 safety-related switching OFF 	Yes		
Certificates/ approvals			
General Product Approval			
Confirmation	<u>KC</u>		

EMC

Functional Safety/Safety of

Declaration of Conformity

Marine / Shipping

	Machinery				
	<u>Type Examination</u> <u>Certificate</u>	<u>UK Declaration of</u> <u>Conformity</u>			
Marine / Shipping				other	Railway
				Confirmation	Vibration and Shock
Dangerous Good					
<u>Transport Informa-</u> <u>tion</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/Catalog/product?mlfb=3RT2047-3NB34-3MA0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-3NB34-3MA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-3NB34-3MA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/cs/ww/en/ps/3RT2047-3NB34-3MA0⟨=en Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-3NB34-3MA0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-3NB34-3MA0&objecttype=14&gridview=view1					

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