SIEMENS

Data sheet

3RT2035-1SF30



contactor, AC-3, 40 A/400 V/60 $^\circ C$ S2, 3-pole, 83-150 V AC/DC, F-PLC-IN, with varistor, 1 NC, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	5 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/29/2021
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C

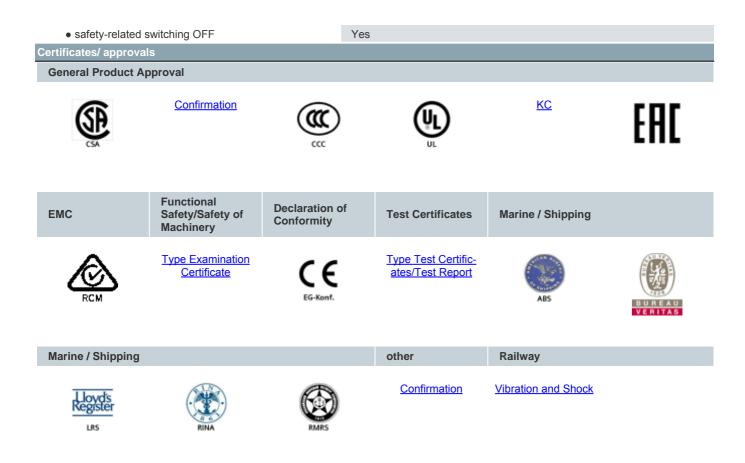
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	60 A
rated value ● at AC-1	
up to 690 V at ambient temperature 40 °C	60 A
rated value	
— up to 690 V at ambient temperature 60 °C	55 A
rated value	
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
 at AC-3e — at 400 V rated value 	41 A
— at 500 V rated value	41 A 41 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	24 A 35 A
• at AC-5a up to 690 V rated value	52.8 A
 at AC-5b up to 400 V rated value 	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
 — up to 400 V for current peak value n=20 rated value 	36.5 A
 — up to 500 V for current peak value n=20 rated value 	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A 24 A
— up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A

— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
up to 400 V for current peak value n=20 rated value	25 200 VA
• up to 500 V for current peak value n=20 rated value	31 600 VA
• up to 690 V for current peak value n=20 rated value	28 600 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	9 600 VA
• up to 400 V for current peak value n=30 rated value	16 800 VA
 up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	21 000 VA
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	28 600 VA
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	196 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

operating frequency	
 at AC-1 maximum 	1 000 1/h
 at AC-2 maximum 	750 1/h
 at AC-3 maximum 	1 000 1/h
 at AC-3e maximum 	1 000 1/h
• at AC-4 maximum	300 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 	83 150 V
 at 60 Hz rated value 	83 150 V
control supply voltage at DC	
rated value	83 150 V
type of PLC-control input according to IEC 60947-1	Туре 1
consumed current at PLC-control input according to IEC 60947-1 maximum	11 mA
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
inrush current peak	25 A
duration of inrush current peak	10 µs
locked-rotor current mean value	0.34 A
locked-rotor current peak	0.8 A
duration of locked-rotor current	230 ms
holding current mean value	0.015 A
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	40 W
holding power of magnet coil at DC	1.6 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
at DC	30 55 ms
recovery time after power failure typical	2.1 s
arcing time	10 20 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 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 	1 A
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 60 V rated value 	2 A
 at 110 V rated value 	1 A
• 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	40 A
at 600 V rated value	40 A 41 A
	110
yielded mechanical performance [hp]	
for single-phase AC motor	0.4-
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
contact rating of auxiliary contacts according to UL	A600 / P600
contact rating of auxiliary contacts according to UL	
contact rating of auxiliary contacts according to UL Short-circuit protection	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415
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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415
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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)
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 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted
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 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
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 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
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 fastening method • side-by-side mounting	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
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 fastening method • side-by-side mounting	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm
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 fastening method • side-by-side mounting height width depth	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm
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 fastening method • side-by-side mounting height width depth required spacing	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - downwards	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm
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 — 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 — upwards — upwards — downwards — at the side — for grounded parts	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm 0 mm
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 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	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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 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 — upwards — upwards — upwards	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 10 mm
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 fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - at the side • forwards - at the side	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm
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 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 — upwards — upwards — upwards	A600 / P600 gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 10 mm

— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
 of magnet coil 	Screw-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
 at AWG cables for main contacts 	2x (18 2), 1x (18 1)
connectable conductor cross-section for main	
contacts	4 95 3
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
 for main contacts 	18 1
 for auxiliary contacts 	20 14
	20
Safety related data	
Safety related data product function	
Safety related data product function • mirror contact according to IEC 60947-4-1	Yes
Safety related data product function	
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1	Yes No
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2	Yes
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1	Yes No Type B
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920	Yes No Type B 1 000 000
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508	Yes No Type B 1 000 000 2
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061	Yes No Type B 1 000 000 2 2
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1	Yes No Type B 1 000 000 2 2 2 C
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1	Yes No Type B 1 000 000 2 2 2 C 2
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function	Yes No Type B 1 000 000 2 2 2 2 C 2 2 0
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN 1SO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum	Yes No Type B 1 000 000 2 2 2 2 c 2 2 0 96 %
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s
Safety related dataproduct function• mirror contact according to IEC 60947-4-1• positively driven operation according to IEC 60947- 5-1safety device type according to IEC 61508-2B10 value with high demand rate according to SN 31920Safety Integrity Level (SIL) according to IEC 61508SIL Claim Limit (subsystem) according to EN 62061performance level (PL) according to EN ISO 13849-1category according to EN ISO 13849-1stop category according to EN 60204-1Safe failure fraction (SFF)diagnostics test interval by internal test function maximumproportion of dangerous failures• with low demand rate according to SN 31920	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	Yes No Type B 1 000 000 2 2 2 2 C 2 2 0 96 % 28 800 s
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Yes No Type B 1 000 000 2 2 2 2 C 2 2 0 96 % 28 800 s
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN 1SO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 Failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061	Yes No Type B 1 000 000 2 2 2 2 C 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to EN 62061	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 FHD with high demand rate according to EN 62061 PFHD with high demand rate according to IEC 61508 MTBF	Yes No Type B 1 000 000 2 2 2 2 0 0 96 % 28 800 s 40 % 73 % 100 FIT 0.000000077 1/h 0.00000077 1/h 0.0067 52 y
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.000000077 1/h 0.0067 52 y 0
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0067 52 y 0 20 y
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947- 5-1 safety device type according to IEC 61508-2 B10 value with high demand rate according to SN 31920 Safety Integrity Level (SIL) according to IEC 61508 SIL Claim Limit (subsystem) according to EN 62061 performance level (PL) according to EN ISO 13849-1 category according to EN ISO 13849-1 stop category according to EN 60204-1 Safe failure fraction (SFF) diagnostics test interval by internal test function maximum proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 PFHD with high demand rate according to EN 62061 PFDavg with low demand rate according to IEC 61508 MTBF hardware fault tolerance according to IEC 61508 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 61508 protection class IP on the front according to IEC 60529	Yes No Type B 1 000 000 2 2 2 2 0 96 % 28 800 s 40 % 73 % 100 FIT 0.00000077 1/h 0.0000077 1/h 0.00000077 1/h 0.00067 52 y 0 20 y



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=3RT2035-1SF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1SF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1SF30

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

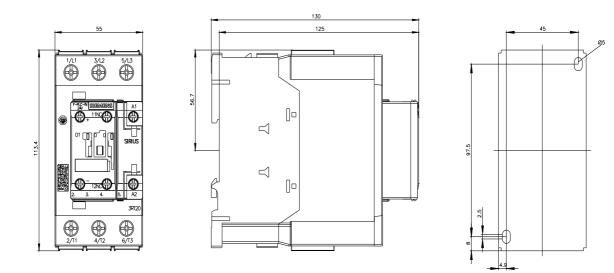
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1SF30&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1SF30/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1SF30&objecttype=14&gridview=view1



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