SIEMENS

Data sheet 3RT2035-1AP60



power contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC, 220 V AC 50 Hz / 240 V, 60 Hz, 3-pole, Size S2, 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	18.5 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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 maximum	95 %

lain circuit	2
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 rated value 	55 A
• 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
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	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	55.2 A
	20.5 A
 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	36.5 A
value	30.3 A
— up to 500 V for current peak value n=20 rated	36.5 A
value	00.071
— up to 690 V for current peak value n=20 rated	24 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	24.2 A
value	
— up to 400 V for current peak value n=30 rated	24.2 A
value	
up to 500 V for current peak value n=30 rated	24.2 A
value	
— up to 690 V for current peak value n=30 rated	24 A
value	
minimum cross-section in main circuit at maximum AC-1	16 mm²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 A
at 400 V rated value at 690 V rated value	18.5 A
	10.5 %
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	ZZ KVV
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 500 V rated value — at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4	22 NVV
at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	14.5 kVA
• up to 400 V for current peak value n=20 rated value	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	9.6 kVA
• up to 400 V for current peak value n=30 rated value	16.8 kVA
up to 500 V for current peak value n=30 rated value	21 kVA
• up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	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	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h

- at AC 2 maximum	4.000.4/b
• 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	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	000.14
at 50 Hz rated value	220 V
at 60 Hz rated value	240 V
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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	0.00
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	40.57/4
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 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	1
number of NC contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 10 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 10 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 10 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 10 A 10 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 410 V rated value • at 410 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 148 V rated value • at 150 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 148 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 30 V rated value • at 48 V rated value • at 60 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A

design of the fuse link		
yelded machanical performance (hy) • for single-phase AC motor — at 100/2020 V rated value — at 200/208 V rated value — at 30 hp — at 460/480 V rated value — at 578/500 V rated value — at 588/500 V rated value	 at 480 V rated value 	40 A
• for single-phase AC motor — at 101/20 V rated value — at 220/20 V rated value — 1 4 576/60 V rated value — 2 576/60 V rated value — 2 576/60 V rated value — 2 576/60 V rated value — 3 576/60 V rated value — 4 60 P600 Short-circult protection of the main circuit — with type of coordination I required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • for short-circuit protection of the auxiliary switch racquired • side-by-side mounting • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • orwards • upwards • downwards • 10 mm • for grounded parts - forwards • 10 mm • or man current circuit • for grounded parts • for wall and the side • formal contacts • for wall and contact connection • for main current circuit • for auxiliary and control circuit • a contactor for auxiliary contacts • for main cortacts • for wall and or straded — linely stranded with core end processing • at AWC scattes for main contacts • for main cortacts • frontly stranded with core end processing • at AWC scattes for main contacts • frontly stranded with core end processing • at AWC scattes for main contacts • frontly stranded with core end processing • at AWC scattes for main contacts • frontly stranded with core end processing • for scat	at 600 V rated value	41 A
at 1101/20 V reled value	yielded mechanical performance [hp]	
— at 230 V rated value	 for single-phase AC motor 	
• for 3-phase AC motor — at 200/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 257/600 V rated value — 40 bp A600 / F600 A6	 at 110/120 V rated value 	3 hp
at 200/280 V rated value	— at 230 V rated value	7.5 hp
- at 220/230 V rated value	 for 3-phase AC motor 	
at 480/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to U. Short-circuit protection with type of coordination 1 required with type of assignment 2 required with side-by-side mounting with side-by-	 at 200/208 V rated value 	10 hp
— at 575/600 V rated value	 at 220/230 V rated value 	15 hp
A600 / P600	— at 460/480 V rated value	30 hp
Short-circuit protection design of the fusal link with type of coordination 1 required with type of coordination 2 required 2 required with type of coordination 2 required 2 required 2 required 2 required 2 required 3 r	— at 575/600 V rated value	40 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection on the standard mounting switch required • for short-circuit protection on the standard mounting surface scale is 6 mm • for main current circuit screw-type terminals • for main contacts • finely stranded with core end processing • for high stranded w	Short-circuit protection	
- 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 - 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 - fastening position - fastening method - side-by-side mounting - side-by-side mounting - with side-by-side mounting - forwards - downwards - at the side - of orgunded parts - forwards - at the side - downwards - at the side - downwards - at the side - downwards - of orwards - of orwar	design of the fuse link	
V. 80 kA) - with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch required spacing * side-by-side mounting * side-by-side mounting * side-by-side mounting * with side-by-side mounting * with side-by-side mounting - with side-by-side mounting - forwards - upwards - upwards - downwards - of orwards - at the side - downwards - of rive parts - forwards - for wards - for wards - of rive parts - forwards - forwards - for ive parts - forwards - for forwards - for for ive parts - forwards - for for ive parts - forwards - for for auxiliary and control circuit - for main current	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxillary switch required installation/mounting/ dimensions mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • side-by-side mounting vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 vertical mounting mounting mounting mounting mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 vertical mounting m	— with type of coordination 1 required	
required Installation/ mounting/ dimensions Installation/ mounting position Installation/ mounting surface; can be tilted forward and backward by 47-22.5° on vertical mounting surface serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Installation Installatio	— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
### ### ##############################	·	gG: 10 A (500 V, 1 kA)
forward and backward by +f- 22.5° on vertical mounting surface screw and sany-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting height ves 1114 mm 1141 mm 1140 mm 1155 mm 120 mm required spacing * with side-by-side mounting - forwards - quywards - downwards - at the side * for grounded parts - forwards - upwards - upwards - the side * of or grounded parts - forwards - at the side * of or grounded parts - forwards - upwards - at the side * of or main current circuit * of or live parts - at the side * of or main current circuit * of or auxiliary and control circuit * of or auxiliary and control circuit * of or main current circuit * of auxiliary and control circuit * of main current cir	Installation/ mounting/ dimensions	
e side-by-side mounting height width depth vidth depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — towards — towards — of main current circuit • for auxiliary and control circuit • at a contactor for auxiliary contacts • of main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing	mounting position	
height width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — of orgrounded parts — forwards 10 mm — of orgrounded parts — forwards 10 mm — upwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — downwards 10 mm • for live parts — downwards 10 mm • for wards 10 mm • for live parts — downwards 10 mm • for for live parts — downwards 10 mm • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • of main current circuit screw-type terminals • of magnet coil screw-type terminals • of magnet coil screw-type terminals • of magnet coil screw-type terminals • for main contacts — solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) — at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) • finely stranded with core end processing 4 35 mm² connectable conductor cross-section for main contacts • finely stranded with core end processing 5 finely stranded with core end processing 6 finely stranded with core end processing 7 35 mm² connectable conductor cross-section for auxiliary	fastening method	
width 55 mm depth 130 mm required spacing Image: spacing of converting of convectable conductor cross-section of maling out and service of connectable conductor cross-section of main contacts 55 mm either side 10 mm e for grounded parts 10 mm e for live parts 6 mm e for live parts 10 mm e for live parts 10 mm e for wards 10 mm e downwards 10 mm e downwards 10 mm e at the side 6 mm Connections/ Terminals type of electrical connection 5 crew-type terminals e for main current circuit screw-type terminals e for auxiliary and control circuit screw-type terminals e for main current circuit screw-type terminals type of connectable conductor cross-sections 6 for main contacts e for main contacts 2x (1 35 mm²), 1x (1 50 mm²) e for main contacts 2x (1 25 mm²), 1x (1 35 mm²) e formation contacts 1 35 mm²	side-by-side mounting	Yes
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — 10 mm — of or grounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — upwards — 10 mm — at the side — downwards — 10 mm — of ror live parts — for live parts — forwards — upwards — 10 mm — of words — upwards — 10 mm — of main current circuit — for main current circuit — of or auxiliary and control circuit — of or auxiliary and control circuit — of magnet coil type of connectable conductor cross-sections — for main contacts — solid or stranded — at WG cables for main contacts — solid or stranded with core end processing — of finely stranded with core end processing — finely stranded with c	height	114 mm
e with side-by-side mounting forwards upwards downwards downwards for grounded parts forwards upwards forwards forwards forwards forwards upwards upwards upwards forwards upwards upwards for live parts forwards for live parts forwards upwards for live parts forwards for main current circuit for main current circuit of main contacts for main contacts finely stranded with core end processing finely stranded with core e	width	55 mm
with side-by-side mounting — forwards	depth	130 mm
forwards upwards downwards downwards at the side for grounded parts forwards upwards upwards at the side downwards at the side downwards at the side downwards at the side downwards for live parts forwards upwards downwards upwards downwards at the side downwards at the side downwards at the side for main current circuit for main current circuit for auxiliary and control circuit of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely st		
- upwards		
- downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - downwards - at the side - downwards - at the side - downwards - at the side - formands - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - finely stranded with core end processing • finely stranded with core end processing	— forwards	
- at the side 0 mm • for grounded parts - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • of magnet coil screw-type terminals type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for auxiliary • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary	·	
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — to five parts — forwards — upwards — upwards — upwards — upwards — downwards — 10 mm — downwards — at the side — formands — at the side — the side — the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing		
forwards		0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm - at the side - downwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing		40
- at the side		
- downwards • for live parts - forwards - upwards - downwards - at the side - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary	·	
 for live parts forwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing sinely stranded with core end processing finely stranded with core end processing sinely stranded with core end processing		
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- upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary 10 mm 50 mm 50 mm 50 crew-type terminals Screw-type terminals Screw-type terminals Screw-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²) 1 35 mm² connectable conductor cross-section for auxiliary	·	40
- downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing - solid or stranded - timely stranded with core end processing - at AWG cables for main contacts • finely stranded with core end processing - sonnectable conductor cross-section for auxiliary		
- at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary	·	
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type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing 		
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing finely connectable conductor cross-section for main contacts finely connectable conductor cross-section for auxiliary 		screw-type terminals
 at contactor for auxiliary contacts of magnet coil Screw-type terminals for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely connectable conductor cross-section for auxiliary 		
 ◆ of magnet coil Screw-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing ◆ at AWG cables for main contacts ◆ at AWG conductor cross-section for main contacts ◆ finely stranded with core end processing ★ finely stranded with core end processing ★ finely stranded with core end processing ★ 35 mm² 		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely connectable conductor cross-section for auxiliary type of connectable conductor cross-sections 2x (1 35 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)		
 for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing 35 mm² 1 35 mm² 1 35 mm² 35 mm² connectable conductor cross-section for auxiliary 		
— finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² 1 35 mm² 1 35 mm²		
— finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² 1 35 mm² 1 35 mm²		2x (1 35 mm²), 1x (1 50 mm²)
 at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary 		
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary		
connectable conductor cross-section for auxiliary		
connectable conductor cross-section for auxiliary	 finely stranded with core end processing 	1 35 mm²

 solid or stranded 	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
 solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 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
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
T1 value for proof test interval or service life according to IEC 61508	20 y
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 OFF 	Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



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



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Confirmation

Vibration and Shock

<u>Transport Information</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AP60

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

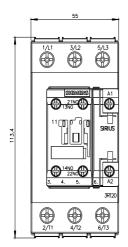
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AP60

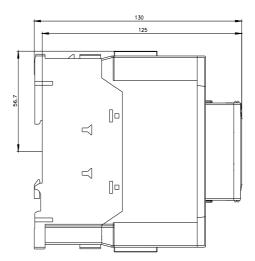
Characteristic: Tripping characteristics, I2t, Let-through current

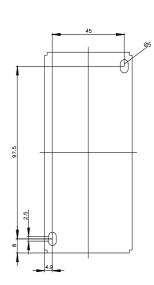
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AP60/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AP60&objecttype=14&gridview=view1







last modified:

2/15/2022