SIEMENS

Data sheet 3RT2015-1BP41



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 230 V DC 3-pole, Size S00 screw terminal

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S00 |
| 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 | 0.6 W |
| at AC in hot operating state per pole | 0.2 W |
| without load current share typical | 4 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 DC | 6,7g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at DC | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (switching cycles) | |
| of contactor typical | 30 000 000 |
| 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) | 10/01/2009 |
| 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 % |

| Nain circuit | 3 |
|--|---------------------|
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | 600 V |
| 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 acted value | 18 A |
| rated value | |
| • at AC-1 | 40.0 |
| up to 690 V at ambient temperature 40 °C rated value | 18 A |
| — up to 690 V at ambient temperature 60 °C | 16 A |
| rated value | 1071 |
| • at AC-3 | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-3e | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| at AC-4 at 400 V rated value | 6.5 A |
| | 15.8 A |
| at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value | |
| at AC-5b up to 400 V rated value | 5.8 A |
| • at AC-6a | 4.4 |
| up to 230 V for current peak value n=20 rated value | 4 A |
| | 4 A |
| up to 400 V for current peak value n=20 rated value | 44 |
| — up to 500 V for current peak value n=20 rated | 3.8 A |
| value | 0.071 |
| — up to 690 V for current peak value n=20 rated | 3.6 A |
| value | |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated | 2.7 A |
| value | |
| — up to 400 V for current peak value n=30 rated | 2.7 A |
| value | |
| up to 500 V for current peak value n=30 rated value | 2.5 A |
| | 2.4 A |
| up to 690 V for current peak value n=30 rated value | 4.7 A |
| minimum cross-section in main circuit at maximum AC-1 | 2.5 mm ² |
| rated value | |
| operational current for approx. 200000 operating | |
| cycles at AC-4 | |
| at 400 V rated value | 2.6 A |
| at 690 V rated value | 1.8 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 110 V rated value | 1.5 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.42 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 110 V rated value | 8.4 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.5 A |
| with 3 current paths in series at DC-1 | |
| with a current baths in selles at DC-1 | |

| — at 24 V rated value | 15 A |
|---|---|
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 15 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.7 A |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 110 V rated value | 0.1 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 110 V rated value | 0.25 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.14 A |
| — at 600 V rated value | 0.14 A |
| operating power | |
| at AC-2 at 400 V rated value | 3 kW |
| • at AC-3 | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| • at AC-3e | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles | TRVV |
| at AC-4 | |
| at 400 V rated value | 1.15 kW |
| at 690 V rated value | 1.15 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 1.5 kVA |
| up to 400 V for current peak value n=20 rated value | 2.7 kVA |
| up to 500 V for current peak value n=20 rated value | 3.3 kVA |
| up to 690 V for current peak value n=20 rated value | 4.3 kVA |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=30 rated value | 1 kVA |
| • up to 400 V for current peak value n=30 rated value | 1.8 kVA |
| • up to 500 V for current peak value n=30 rated value | 2.2 kVA |
| • up to 690 V for current peak value n=30 rated value | 2.9 kVA |
| short-time withstand current in cold operating state | |
| up to 40 °C | |
| limited to 1 s switching at zero current maximum | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 67 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 52 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 43 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at DC | 10 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | DC |
| The or tollage of the control supply tollage | |

| * rated value | | |
|--|--|---|
| Operating range factor control supply voltage rated value of magnet coil at DC | control supply voltage at DC | |
| Value of magnet coll at DC | | 230 V |
| • Intitals value 0.8 • Intitals value 1.1 • Intitals value 1.1 • Intitals value 2.4 • Intitals value 3.0 • Intitals value | | |
| Multiscale value | _ | 0.8 |
| Closing power of magnet coil at DC | | |
| Automatical and DC | | |
| act DC | | |
| ■ at DC opening delay ■ at DC arcing time control version of the switch operating mechanism Auxillary circuit unumber of NO contacts for auxillary contacts instantaneous contact operational current at AC-15 ■ at 230 V rated value ■ at 600 V rated | | 4 ٧٧ |
| opening delay | | 20 400 |
| ### of DC 7 13 ms 10 15 | | 30 100 HIS |
| acting time | | 7 40 |
| Control version of the switch operating mechanism Standard A1 - A2 | | |
| Auxiliary circuit Contacts for auxiliary contacts | | |
| Inumber of NO contacts for auxiliary contacts instantaneous contact | | Standard AT - AZ |
| 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 500 V rated value • at 600 V rated value • at 60 V rated | | |
| Operational current at AC-12 maximum 10 A | | 1 |
| Departional current at AC-15 at 230 V rated value | | 10 A |
| at 230 V rated value | • | 10 A |
| * at 400 V rated value | • | 10 A |
| • at 500 V rated value | | |
| a 1690 V rated value | | |
| Deprational current at DC-12 | | |
| ** at 24 V rated value | | TA |
| • 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 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 25 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 230 V rated value • for 3-phase AC motor • at 480/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • at 400/480 V rated value • for 3-phase AC motor • for 6-phase AC moto | • | 40.4 |
| • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 320 V rated value • at 600 V rated value • at 800 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 375/600 V rated value • at 575/600 V rated value • at 600 V potection of the main circuit • with type of coordination 1 required • with type of assignment 2 required 96: 204 (690V,100kA), alt: 164 (690V, 100kA), BS88: 204 (415V, V | | |
| | | |
| | | |
| | | |
| • at 600 V rated value | | |
| operational current at DC-13 | | |
| • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 260 V rated value • at 2600 V rated value • at 600 V rated value • at 710 V rated value • for single-phase AC motor • at 110 / 120 V rated value • for 3-phase AC motor • at 200 / 208 V rated value • for 3-phase AC motor • at 200 / 208 V rated value • at 202 / 230 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit • with type of coordination 1 required • with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) • with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | 0.15 A |
| • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 1125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value contact reliability of auxiliary contacts ULCSA ratings | • | 40.4 |
| 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 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 110/120 V rated value at 230 V rated value at 230 V rated value at 220/230 V rated value at 220/230 V rated value at 480 V rated value 5 hp at 460/480 V rated value at 575/600 V rated value b fp 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 gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 20A (690V,100kA), all: 16A (690V, 100kA), BS88: 20A (415V,80kA) | | |
| at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 5 hp at 460/480 V rated value 3 hp at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS8: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS8: 20A (415V,80kA) | | |
| at 125 V rated value at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/230 V rated value for 3-phase AC motor at 200/230 V rated value for 3-phase AC motor at 200/230 V rated value for 3-phase AC motor at 200/230 V rated value 5 hp at 460/480 V rated value at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) | | |
| at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value of 3-phase AC motor at 230 V rated value of 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 575/600 V rate | | |
| at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor | | |
| contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value | | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) | | 1 faulty switching per 100 million (17 V, 1 mA) |
| at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value - at 230 V rated value for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) | UL/CSA ratings | |
| in at 600 V rated value in for single-phase AC motor | | |
| yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) | | |
| for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 0.25 hp 0.75 hp • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 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-lock at 200 V rated value gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V | | 6.1 A |
| - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - with type of coordination 1 required - with type of assignment 2 required 0.25 hp 0.75 hp 1.5 hp 2 hp 3 hp 5 hp A600 / Q600 A600 / Q600 Short-circuit protection gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) | | |
| at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value bp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value | | |
| - at 200/208 V rated value - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required GG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | 0.75 hp |
| - at 220/230 V rated value - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | · | |
| — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) — with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| 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 GG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | | |
| design of the fuse link ● for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required GG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | contact rating of auxiliary contacts according to UL | A600 / Q600 |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | Short-circuit protection | |
| — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) — gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | design of the fuse link | |
| — with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, | • for short-circuit protection of the main circuit | |
| | — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| 80kA) | — with type of assignment 2 required | |
| , | | 80kA) |

| ctallation/ mounting/dimensions | |
|--|--|
| stallation/ mounting/ dimensions | 1/4000 |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| side-by-side mounting | Yes |
| neight | 58 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — 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 |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| onnections/ 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 | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| — solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG cables for main contacts | 2x (20 16), 2x (18 14), 2x 12 |
| connectable conductor cross-section for main | |
| • solid | 0.5 4 mm² |
| • stranded | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| connectable conductor cross-section for auxiliary | 5.5 m 2.6 mm |
| solid or stranded | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 20 12 |
| for auxiliary contacts | 20 12 |
| afety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes; with 3RH29 |
| 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





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Dangerous Good



Confirmation



<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=3RT2015-1BP41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1BP41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BP41

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

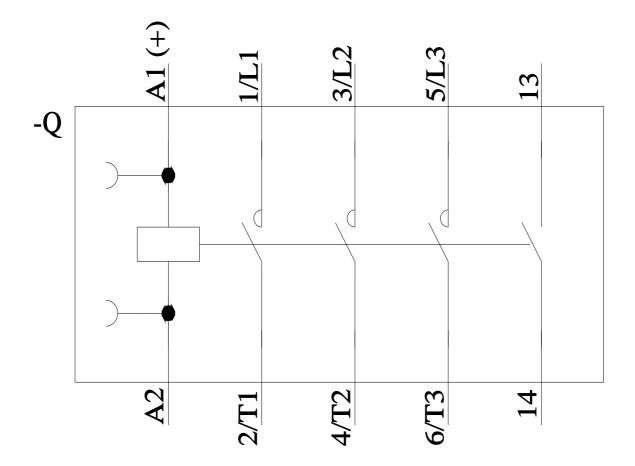
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1BP41\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BP41/char

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2015-1BP41\&objecttype=14\&gridview=view1}$



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