SIEMENS

Data sheet 3RT2017-1AP62



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 1 NC, 220 V AC, 50 Hz, 240 V 60 Hz, 3-pole, frame 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 | 1.5 W |
| at AC in hot operating state per pole | 0.5 W |
| without load current share typical | 5.9 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 | 7,3g / 5 ms, 4,7g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating 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 % |
| 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 rated value | 22 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 22 A |
| — up to 690 V at ambient temperature 60 °C rated value • at AC-3 | 20 A |
| — at 400 V rated value | 12 A |
| — at 500 V rated value | 9.2 A |
| — at 690 V rated value | 6.7 A |
| • at AC-3e | |
| — at 400 V rated value | 12 A |
| — at 500 V rated value | 9.2 A |
| — at 690 V rated value | 6.7 A |
| • at AC-4 at 400 V rated value | 8.5 A |
| • at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 9.9 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated | 7.2 A 7.2 A |
| value | |
| — up to 500 V for current peak value n=20 rated value | 7.2 A |
| up to 690 V for current peak value n=20 rated value at AC-6a | 6.7 A |
| up to 230 V for current peak value n=30 rated value | 4.8 A |
| up to 400 V for current peak value n=30 rated value | 4.8 A |
| up to 500 V for current peak value n=30 rated value | 4.8 A |
| — up to 690 V for current peak value n=30 rated value | 4.8 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 4 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 4.1 A |
| at 690 V rated value | 3.3 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 2.1 A |
| — at 220 V rated value | 0.8 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 12 A |
| — at 220 V rated value | 1.6 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.7 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |

| 10001/1 1 | |
|---|---|
| — at 600 V rated value | 1 A |
| • at 1 current path at DC-3 at DC-5 | 00.4 |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 0.15 A |
| with 2 current paths in series at DC-3 at DC-5 | 00.4 |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 0.35 A |
| with 3 current paths in series at DC-3 at DC-5 | 00.4 |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 1.5 A |
| — at 440 V rated value | 0.2 A |
| — at 600 V rated value | 0.2 A |
| operating power | E E IAM |
| at AC-2 at 400 V rated valueat AC-3 | 5.5 kW |
| — at 230 V rated value | 3 kW |
| — at 400 V rated value | 5.5 kW |
| — at 400 V rated value | 5.5 kW |
| — at 690 V rated value | 5.5 kW |
| • at AC-3e | J.J RVV |
| — at 230 V rated value | 3 kW |
| — at 400 V rated value | 5.5 kW |
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 5.5 kW |
| operating power for approx. 200000 operating cycles | 0.0 KW |
| at AC-4 | |
| at 400 V rated value | 2 kW |
| at 690 V rated value | 2.5 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 2.8 kVA |
| up to 400 V for current peak value n=20 rated value | 4.9 kVA |
| up to 500 V for current peak value n=20 rated value | 6.2 kVA |
| up to 690 V for current peak value n=20 rated value | 8 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1.9 kVA |
| up to 400 V for current peak value n=30 rated value | 3.3 kVA |
| up to 500 V for current peak value n=30 rated value | 4.1 kVA |
| up to 690 V for current peak value n=30 rated value | 5.7 kVA |
| short-time withstand current in cold operating state | |
| up to 40 °C | |
| Iimited to 1 s switching at zero current maximum | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 5 s switching at zero current maximum | 123 A; Use minimum cross-section acc. to AC-1 rated value |
| Ilimited to 10 s switching at zero current maximum | 96 A; Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 30 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum | 74 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 60 s switching at zero current maximum no load switching frequency. | 61 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency • at AC | 10 000 1/h |
| | 10 000 1/11 |
| 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-3 maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | AO . |
| at 50 Hz rated value | 220 V |
| at 50 Hz rated value at 60 Hz rated value | 240 V |
| operating range factor control supply voltage rated | 2.00 |
| 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 | |
| | |

| 4.50.11 | 00.1/4 |
|--|---|
| ● at 50 Hz | 36 VA |
| ● at 60 Hz | 36 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| • at 60 Hz | 0.8 |
| | 0.0 |
| apparent holding power of magnet coil at AC | 5.0.1/4 |
| • at 50 Hz | 5.9 VA |
| ● at 60 Hz | 5.9 VA |
| inductive power factor with the holding power of the | |
| coil | |
| ● at 50 Hz | 0.24 |
| ● at 60 Hz | 0.24 |
| closing delay | |
| • at AC | 9 35 ms |
| opening delay | |
| • at AC | 4 15 ms |
| arcing time | 10 15 ms |
| • | Standard A1 - A2 |
| control version of the switch operating mechanism | Standard AT - AZ |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 1 |
| instantaneous contact | |
| 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 10 V rated value at 110 V rated value | 1A |
| | |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 11 A |
| at 600 V rated value | 11 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.5 hp |
| | 0.5 hp |
| — at 230 V rated value | 2 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 3 hp |
| at 220/230 V rated value | 3 hp |
| at 460/480 V rated value | 7.5 hp |
| at 575/600 V rated value | 10 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 | |
| to the second se | 0. 504 (000) (100) 1) 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16 |
| — with type of coordination 1 required | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — with type of coordination 1 required— with type of assignment 2 required | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) |

| mounting position fastening method side-by-side mounting height side by-side mounting height side by-side mounting height side by-side mounting height side by-side mounting side by-side mounting height side by-side mounting side by-side mounting side by-side mounting height side by-side mounting side by-side mounting height side by-side mounting side by-side mounting side by-side mounting height side by-side side by-side mounting height side by-side side side side height side side heig | for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
|--|---|--|
| fastering method side-by-side mounting height width depth required spacing with side-by-side mounting - forwards - upwards - downwards - downwards - downwards - downwards - at the side - or forwards - ownwards - of rownwards - ownwards - ownwards - or low parts - forwards - of or low parts - ownwards - own | Installation/ mounting/ dimensions | |
| Side-by-side mounting | mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| height width depth 77 mm required spacing • with side-by-side mounting — forwards | fastening method | |
| with depth prequired spacing • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards - upwards - downwards - of minimated parts - forwards - torwards - torwards - upwards - torwards - upwards - torwards - upwards - of minimated parts - forwards - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - to make the side - downwards - upwards - to make the side - downwards - upwards - to make the side - for makingly and control circuit • for auxillary and control circuit • for auxillary and control circuit - solid - solid or stranded - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid or stranded - finely stranded with core end processing • and the side of the si | side-by-side mounting | Yes |
| eighth required spacing with side-by-side mounting - forwards - upwards - at the side of grounded parts - forwards - upwards - of the side - downwards - of the side - downwards - forwards - of the side - downwards - forwards - for live parts - forwards - forwards - forwards - for side parts - forwards - for side parts - forwards - downwards - for file parts - forwards - downwards - for min cornection: - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - soli | height | 58 mm |
| required spacing • with side-by-side mounting — forwards — upwards — at the side — ownwards — of for grounded parts — (rowards — the side — ownwards — at the side — ownwards — at the side — ownwards — ownwards — ownwards — forwards — forwards — ownwards — ownwar | width | 45 mm |
| • with side-by-side mounting | depth | 73 mm |
| Invavards | required spacing | |
| - upwards - downwards - at the side - for grounded parts - forwards - upwards - upwards - at the side - downwards - for live parts - forwards - for live parts - forwards - for live parts - forwards - upwards - for live parts - forwards - for live parts - forwards - upwards - for live parts - forwards - downwards - downwards - downwards - downwards - for main contect conductor cross-sections - for main contacts - solid - solid or stranded - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - solid or stranded - finely stranded with core en | with side-by-side mounting | |
| - downwards - at the side | — forwards | 10 mm |
| - at the side • for grounded parts - Inowards - Upwards - It is side - downwards - for live parts - forwards - Inoma - of the side - downwards - forwards - Inoma - downwards - Inoma - downwards - Inoma - downwards - Inoma - at the side - downwards - downwards - Inoma - at the side - of main cortect circuit - of rauxillary and control circuit - of or auxillary and control circuit - solid - solid - solid - stranded - Inely stranded with core end processing - solid - sinely stranded with core end processing - solid - solid - stranded - finely stranded with core end processing connectable conductor cross-section for main contacts - solid - solid or stranded - finely stranded with core end processing connectable conductor cross-sections - for auxillary contacts - solid or stranded - finely stranded with core end processing connectable conductor cross-sections - for auxillary contacts - solid or stranded - finely stranded with core end processing - at AVNG cables for auxillary contacts - solid or stranded - finely stranded with core end processing - and the contact of contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - on or auxillary contacts - solid or stranded - finely stranded with core end processing - on or auxillary contacts - solid or stranded - finely stranded with core end processing - for auxillary contacts - solid or stranded - finely stranded with core end processing - for auxillary contacts - solid or stranded - finely stranded with core end processing - for auxillary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid o | — upwards | 10 mm |
| • for grounded parts — forwards — upwards — at the side — downwards 10 mm • for live parts — forwards — upwards — upwards — upwards — upwards — the side — downwards — upwards — the side — forwards — upwards — the side — of main contacts • for main correct circuit • for auxiliary and control circuit • for rauxiliary and control circuit • for main contacts • of majnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AVVG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary | — downwards | 10 mm |
| - forwards - upwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - for main current circuit - for auxiliary and control circuit - for main contacts - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - stranded - finely stranded with core end processing - solid or stranded - finely stranded with core en | — at the side | 0 mm |
| - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - at the side - downwards - upwards - at the side - downwards - at the side - for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for famin current circuit • for famin current circuit • for famin current circuit • for famin contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid • stranded • finely stranded with core end processing • solid or stranded • finely st | for grounded parts | |
| - at the side - downwards - 10 mm - 10 | — forwards | |
| - downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of majne coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded • finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded • finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded • finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded • finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded • finely stranded with core end processing • or auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processi | · | |
| • for live parts - forwards - upwards - downwards - 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 - solid or stranded - finely stranded with core end processing connectable conductor cross-section for main contacts • solid • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid - solid or stranded - finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • sinely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG about the solid auxiliary contacts - solid or stranded - finely stranded w | | |
| forwards upwards upwards downwards downwards at the side Connections/ Torminals 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 solid or stranded finely stranded with core end processing • at AWM Cables for main contacts solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stranded finely stranded with core end processing • solid or stra | | 10 mm |
| - upwards - downwards - 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 - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stra | • | 40 |
| - downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for amin current circuit 5 or auxiliary and control circuit 5 or main current circuit 5 or main contacts • of magnet coil 5 connectable conductor cross-sections • for main contacts 5 connectable conductor cross-sections • for main contacts 6 connectable conductor cross-sections • solid 7 connectable conductor cross-sections 6 connectable conductor cross-section for main contacts 7 connectable conductor cross-section for main contacts 8 connectable conductor cross-section for main contacts 9 connectable conductor cross-section for main contacts 9 connectable conductor cross-section for auxiliary contacts 9 connectable conductor cross-section for auxiliary contacts 9 connectable conductor cross-section for auxiliary contacts 9 connectable conductor cross-sections 9 connectab | | |
| 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 • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts • for auxiliary contacts 2 | · | |
| type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of main contacts • solid — solid or stranded — finely stranded with core end processing • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts AWG number as coded connectable conductor cross-sections • for auxiliary contacts AWG mumber as coded connectable conductor cross section • for main contacts • for auxiliary contacts AWG aubles for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 4 mm² 0.5 25 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x | | |
| type of electrical connection • for main current circuit • for awailiary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing et AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 40 % | | 6 mm |
| • 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 — solid or stranded — finely stranded with core end processing • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • at AWC cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • fo | Connections/ Terminals | |
| • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for wall product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 Proportion of dangerous failures • with low demand rate according to SN 31920 | 21 | |
| at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid — solid or stranded — finely stranded with core end processing at AWG cables for main contacts — solid — solid — finely stranded with core end processing at AWG cables for main contacts — solid — solid — stranded — solid — stranded — finely stranded with core end processing ostranded — finely stranded with core end processing connectable conductor cross-section for auxiliary contacts osolid or stranded — finely stranded with core end processing of connectable conductor cross-sections of or auxiliary contacts — solid or stranded — finely stranded with core end processing other auxiliary contacts — solid or stranded — finely stranded with core end processing other auxiliary contacts — solid or stranded — finely stranded with core end processing other auxiliary contacts — finely stranded with core end processing other auxiliary contacts — finely stranded with core end processing other auxiliary contacts — finely stranded with core end processing other auxiliary contacts 2x (20 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 AWG cables for auxiliary contacts of or auxiliary contacts of or auxiliary con | | • • |
| of magnet coil type of connectable conductor cross-sections of or main contacts — solid | - | |
| • for main contacts • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables conductor cross-sections • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts • for auxil | | |
| for main contacts | | Screw-type terminals |
| solid solid or stranded finely stranded with core end processing solid solid or stranded finely stranded with core end processing at AWG cables for main contacts solid or stranded solid or str | | |
| - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 | | 0 (0 5 4 5 2) 0 (0 75 0 5 2) 0 4 2 |
| - finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts - solid or stranded - finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section for main contacts for auxiliary contacts for auxiliary contacts AWG number as coded connectable conductor cross-section for main contacts for or auxiliary contacts Product function mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with low demand rate according to SN 31920 yx (20 16), 2x (18 14), 2x 12 x (20 16), 2x (18 14), 2x 12 x (20 15 mm²) 2x (20 15 mm²) 2x (20 15 mm²) 2x (20 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 x (20 15 mm²) 2x (20 15 mm²), 2x (20 15 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 x (20 16), 2x (18 14), 2x | | |
| at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts at AWG cables for auxiliary contacts at AWG number as coded connectable conductor crosssection for main contacts for auxiliary contact | | |
| connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts - for main contacts • for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary cont | , , | |
| contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 | | 2X (20 10), 2X (10 14), 2X 12 |
| • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | |
| • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 | • solid | 0.5 4 mm² |
| connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 with low demand rate according to SN 31920 40 % | stranded | 0.5 4 mm² |
| connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 with low demand rate according to SN 31920 40 % | finely stranded with core end processing | 0.5 2.5 mm ² |
| solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contact | connectable conductor cross-section for auxiliary | |
| finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary cont | | 0.5 4 mm² |
| type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 we with low demand rate according to SN 31920 40 % | | |
| for auxiliary contacts — solid or stranded — finely stranded with core end processing | | |
| — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 40 % | | |
| — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 mith low demand rate according to SN 31920 with low demand rate according to SN 31920 40 % | - | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² |
| at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts for auxiliary contacts mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with low demand rate according to SN 31920 40 % | finely stranded with core end processing | |
| section • for main contacts • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 % | at AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 2x 12 |
| for main contacts for auxiliary contacts 20 12 Safety related data product function mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 40 % | | |
| ● for auxiliary contacts Safety related data product function ● mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures ● with low demand rate according to SN 31920 40 % | | 20 40 |
| product function | | |
| product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 % | | 20 12 |
| mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 40 % | | |
| 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 % | | |
| proportion of dangerous failures with low demand rate according to SN 31920 40 % | | |
| • with low demand rate according to SN 31920 40 % | | 1 000 000 |
| | | |
| with nigh demand rate according to SN 31920 73 % | | |
| | with high demand rate according to SN 31920 | 13 % |

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

100 FIT

20 y

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping









Confirmation





Marine / Shipping

other

Vibration and Shock

Railway



Confirmation



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=3RT2017-1AP62

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AP62

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP62

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

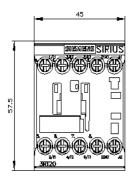
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-1AP62&lang=en

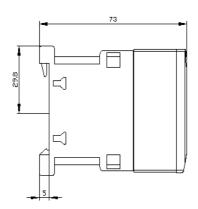
Characteristic: Tripping characteristics, I2t, Let-through current

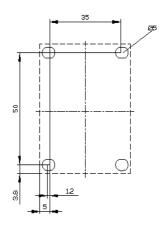
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP62/char

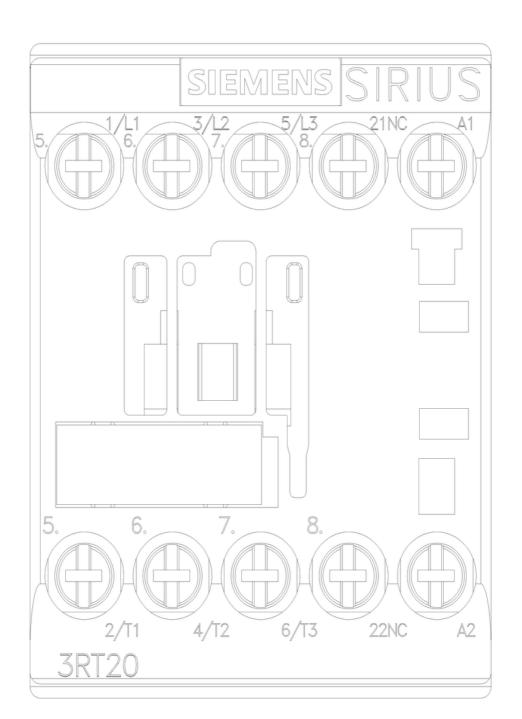
Further characteristics (e.g. electrical endurance, switching frequency)

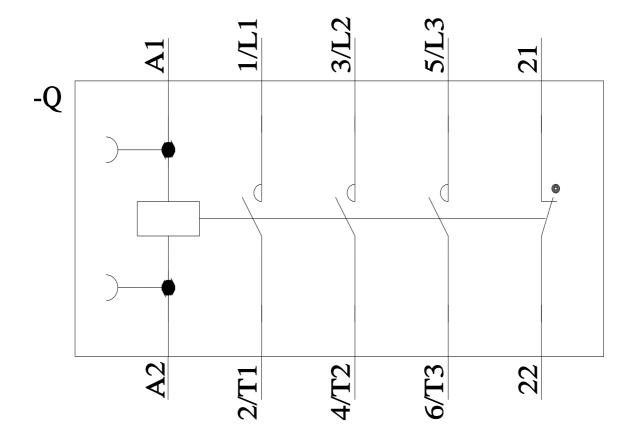
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AP62&objecttype=14&gridview=view1











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