SIEMENS

Data sheet

3RT2035-3NP30



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2,

| product brand name | SIRIUS |
|---|---------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S2 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 6.6 W |
| at AC in hot operating state per pole | 2.2 W |
| without load current share typical | 2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 7.7g / 5 ms, 4.5g / 10 ms |
| • at DC | 7.7g / 5 ms, 4.5g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 12g / 5 ms, 7g / 10 ms |
| • at DC | 12g / 5 ms, 7g / 10 ms |
| mechanical service life (operating 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 % |

| 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 | 60 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 60 A |
| — 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 • at AC-3e | 24 A |
| — 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 | |
| — up to 230 V for current peak value n=20 rated value | 36.5 A |
| — up to 400 V for current peak value n=20 rated value | 36.5 A |
| — up to 500 V for current peak value n=20 rated value | 36.5 A |
| — up to 690 V for current peak value n=20 rated value | 24 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 24.2 A |
| — up to 400 V for current peak value n=30 rated value | 24.2 A |
| — up to 500 V for current peak value n=30 rated value | 24.2 A |
| — up to 690 V for current peak value n=30 rated value | 24 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 16 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 22 A |
| at 690 V rated value | 18.5 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 55 A |
| — at 60 V rated value | 23 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 60 V rated value | 45 A |
| — at 110 V rated value — at 220 V rated value | 45 A 5 A |
| — at 220 V rated value — at 440 V rated value | 5 A 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 60 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 |
| ענידדט א וענכע אמועכ | |

| — 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 60 V rated value | 6 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 60 V rated value | 45 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 60 V rated value | 55 A |
| — at 110 V rated value | 55 A |
| — at 220 V rated value | 25 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.35 A |
| operating power | |
| at AC-2 at 400 V rated value | 18.5 kW |
| • at AC-3 | |
| — at 230 V rated value | 11 kW |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 22 kW |
| • at AC-3e | |
| — at 230 V rated value | 11 kW |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 22 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| • at 400 V rated value | 11.6 kW |
| • at 690 V rated value | 16.8 kW |
| operating apparent power at AC-6a | |
| up to 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 $^\circ\mathrm{C}$ | |
| 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 |
| - | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum | 400 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC operating frequency | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 1 500 1/h |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC operating frequency at AC-1 maximum | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 1 500 1/h 1 200 1/h |
| limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC operating frequency | 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 1 500 1/h |

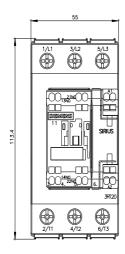
| • # 2-4 maxmum300 1/hCentral decad (Sector Upp) voltage at ACACDC• # 60 H rande value175 280 V• # 60 H rande value175 280 V• # 60 H rande value75 280 V• # 61 H rande value0.6• # 61 H rande value0.7• # 61 H rande value0.7 | • at AC-3e maximum | 1 000 1/h |
|---|---------------------------------------|------------------|
| Control Linguage ALC Image: Control Supply voltage ALC • 16 D0 Frande value 175 280 V • • 61 D0 Frande value 175 280 V • • 61 D0 Frande value 175 280 V • • 61 d0 Frande value 0.8 • • 61 d0 Frande value 0.2 A • 0 do Frande value 0.2 A | | |
| type of voltage of the control supply voltage AC/DC control supply voltage at AC 175 280 V • at 00 Hz inted value 175 280 V • at 00 Hz inted value 175 280 V • at 00 Hz inted value 175 280 V • attad value 175 280 V • attad value 0.8 • intel value 0.8 • intel value 0.8 • intel value 0.8 • at 00 Hz 0.2 A Iocked-toror current mean value 6 mA • at 00 Hz 40 VA • at 00 Hz 2 VA • at 00 Hz 2 VA • at 01 Hz 2 VA • at 01 Hz 2 VA • at 01 Hz 2 VA | | |
| control supply voltage at AC 75 280 V • at 60 Hz rated value 175 280 V control supply voltage at DC 175 280 V • rated value 175 280 V operating range factor control supply voltage rated value of magnet coll at C 0.8 • indiad value 0.42 • indiad value 0.42 | | |
| • at 80 Pt rated value 175 280 V control supply voltage at DC 175 280 V • nated value 175 280 V • nated value 175 280 V • operating range factor control supply voltage rated value of megnet coll at AC 0.8 • inful value 0.8 • inful value 0.8 • at 80 Pt z 0.8 11 • et at 00 Pt z 0.42 A Idcode-toror current neav value 0.2 A Idcode-toror current neav value 6 mA • at 00 Pt z 40 VA • at 00 Pt z 40 VA • at 00 Pt z 40 VA • at 00 Pt z 20 Pt z • at 00 Pt z 20 Pt z • at 00 Pt z 30 | | |
| | | 475 000.1/ |
| Control supply voltage at DC 175 280 V • rated value 175 280 V • initial value 0.8 • initial value 0.8 • initial value 0.8 • initial value 0.8 • at 60 btz 0.81.1 • ett 00 btz 0.42 A duration of locked-rotor current 230 ms • hotding power of magnet coil at AC 40 VA • ett 50 btz 40 VA • ett 60 btz 40 VA • ett 60 btz 20 VA </td <td></td> <td></td> | | |
| index value 175 280 V operating range factor control supply voltage rated value of initial value 0.8 initial value 0.8 initial value 1.1 operating range factor control supply voltage rated value of magnet coll at AC 0.8 1.1 initial value 0.42 A initial value < | | 1/5 280 V |
| operating range factor control supply voltage rated value of mignet coil at BCC 0.8 • initial value 0.8 • initial value 0.8 • initial value 0.8 • at 80 bitz 0.81.1 • dat 80 bitz 0.2.A Iocked-rotor current mean value 0.2.A Iocked-rotor current mean value 6 mA apparent pitck-up power of magnet coil at AC 40 VA • at 80 bitz 40 VA • at 80 bitz 2 VA closing power of magnet coil at AC 1 W • at 60 bitz 2 VA closing power of magnet coil at DC 1 W closing power of magnet coil at DC 1 W closing datay | | |
| magnet coll at DC0.8• full-scale value1.1operating range factor control supply voltage rated value of magnet coll at AC0.8 1.1• at 60 hiz0.8 1.1• at 60 hiz0.8 1.1design of the surge suppressorwith variatorimmab current peak5.Aduration of inrush current peak0.2 Alocked-rotor current peak0.42 Aduration of locked-rotor current peak0.42 Aduration of locked-rotor current peak0.42 Aat 00 hiz0.9 VAapparent pick-up power of magnet coll at AC0.9 VA• at 50 hiz40 VAapparent pick-up power of magnet coll at AC20 VA• at 60 hiz20 VA• at 60 hiz35 110 ms• at DC35 110 ms• at DC30 55 ms• at DC30 55 ms• at DC30 55 ms• at DC30 55 ms• at DC10 Aoperational current at AC-1510 Aoutret double3 A• at DC10 Aoutret double3 A• at 200 Vrated value1 Aoutret double3 A </td <td></td> <td>175 280 V</td> | | 175 280 V |
| • full-scale value 1.1 operating range factor control supply voltage rated value of mignot coll at AC 0.81.1 • at 50 Hz 0.81.1 • at 50 Hz 0.81.1 design of the surge suppressor with variator Imrush current peak 5.A duration of inrush current peak 30 µs locked-rotor current peak 0.2.A locked-rotor current peak 0.42 A duration of locked-rotor current 230 mis holding current mean value 6 mA apparent pick-up power of magnet coll at AC 40 VA • at 50 Hz 40 VA • at 60 Hz 2 VA • at 60 Hz 35 110 ms • at 60 Hz 35 110 ms • at AC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms • at DC 30 50 ms • at 200 V rated value 1 • at 300 V rated value 1A opar | magnet coil at DC | |
| operating anape factor control supply voltage rated value of megnet coli at AC 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • dat 50 Hz 0.2 A • locked-rotor current peak 0.42 A • dat 50 Hz 40 VA • at 50 Hz 40 VA • at 50 Hz 40 VA • at 50 Hz 2 VA • at 50 Hz 3 S 110 ms • at 50 Hz 3 S 110 ms • at 20 3 S 10 ms • at 20C 30 55 ms • at 20C | | |
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| • at 50 Hz 0.8 1.1 • at 60 Hz 0.8 1.1 design of the surge suppressor with variator Inrush current peak 5 A duration of incush current peak 0.2 A locked-rotor current mean value 0.2 A locked-rotor current mean value 0.42 A duration of incoder-lotor current 230 ms holding current mean value 6 mA apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz 40 VA apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz 2 VA • at 50 Hz 3 W holding power of magnet coil at DC 1 W closing delay • at 3 C • at 2C 35 110 ms • at 2C 30 55 ms • at 2DC | | |
| • at 60 Hz 0.81.1 design of the surge suppressor with variator inrush current peak 30 µs locked-rotor current peak 0.2 A locked-rotor current mean value 0.2 A locked-rotor current mean value 6 mA apparent pick-up power of magnet coil at AC 40 VA • at 50 Hz 40 VA • at 50 Hz 40 VA • at 50 Hz 40 VA • at 60 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 10 VA • at 60 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 3055 ms • at AC 35110 ms • at AC 3055 ms • at AC 1 • at AC 1 • at AC 1 • at DC 3055 ms • at AC 40 VA • at AC 40 VA • at AC 3055 ms • at AC 1 • at AC 1 • at AC 1 • at AC 1 • at AC | - | 0.8 1.1 |
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| locked-rotor current mean value 0.2 A locked-rotor current peak 0.42 A duration of locked-rotor current 230 ms holding current mean value 6 mA apparent pick-up power of magnet coil at AC 40 VA • at 50 Hz 2 VA • at 60 Hz 2 VA • at 80 Hz 30 55 ms • at AC 30 55 ms • at AC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms • at AC 30 55 ms • at DC 30 55 ms • at 10 C 10 20 ms contacts for auxiliary contacts instantaneous number of NC contacts for auxiliary contacts instantaneous 1 contact poerational current at AC-15 • at 200 V rated value 3A | · · · · · · · · · · · · · · · · · · · | |
| locked-rotor current peak0.42 Aduration of locked-rotor current230 msholding current mean value8 mAapparent pick-up power of magnet coil at AC40 VA• at 60 Hz40 VAapparent holding power of magnet coil at AC2 VA• at 60 Hz2 VAclosing power of magnet coil at AC2 VAclosing power of magnet coil at DC23 Wholding current at AC35 110 ms• at AC35 110 ms• at AC30 55 ms | | |
| duration of locked-roter current 230 ms holding current mean value 6 mA apparent pick-up power of magnet coil at AC 40 VA • at 50 Hz 40 VA apparent holding power of magnet coil at AC 40 VA • at 50 Hz 40 VA • at 50 Hz 2 VA • at 60 Hz 2 VA • at 60 Hz 2 VA closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing power of magnet coil at DC 35 110 ms • at AC 35 110 ms • at AC 35 110 ms • at AC 30 55 ms • at DC 30 55 ms • at AC 10 20 ms control version of the switch operating mechanism Standard A1 - A2 number of NC contacts for auxiliary contacts instantaneous 1 contact operational current at AC-15 | | |
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| apparent pick-up power of magnet coil at AC 40 VA • at 60 Hz 40 VA apparent holding power of magnet coil at AC 2 VA • at 60 Hz 2 VA closing power of magnet coil at DC 23 W holding power of magnet coil at DC 10 W closing delay | | |
| Nome40 VA• at 50 Hz40 VAapparent holding power of magnet coil at AC2• at 50 Hz2 VA• at 60 Hz2 VAclosing power of magnet coil at DC23 Wholding power of magnet coil at DC1 Wclosing delay | | U IIIA |
| • at 60 Hz40 VAapparent holding power of magnet coll at AC2• at 60 Hz2 VAclosing power of magnet coll at DC23 Wholding power of magnet coll at DC1 Wclosing delay-• at AC35 110 ms• at DC35 110 ms• at DC30 55 ms• at AC30 55 ms• at DC30 55 ms• at DC30 55 ms• at DC30 55 ms• at DC10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Avxillary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-15-• at 200 V rated value10 Aoperational current at DC-12-• at 600 V rated value6A• at 600 V rated value6A• at 100 V rated value6A• at 110 V rated value6A• at 120 V rated v | | 40.1/4 |
| apparent holding power of magnet coil at AC • at 50 Hz 2 VA closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing power of magnet coil at DC 1 W closing power of magnet coil at DC 35 110 ms • at AC 35 110 ms • at DC 36 110 ms • at DC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 10 20 ms number of NC contacts for auxiliary contacts instantaneous contact 1 operational current at AC-15 1 • at 200 V rated value 10 A operational current at AC-15 2 • at 500 V rated value 1 A operational current at AC-12 10 A operational current at AC-15 1 • at 400 V rated value 1 A operational current at AC-16 6 A • at 400 V rated value 1 A operational current at AC-12 3 A • at 400 V rated value 1 A operational current at DC-12 < | | |
| • at 50 Hz 2 VA • at 60 Hz 2 VA closing power of magnet coil at DC 23 W holding power of magnet coil at DC 1 W closing delay • at AC • at DC 35 110 ms • at DC 35 110 ms • at AC 35 110 ms • at AC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Auxtiliary circuit 1 number of NC contacts for auxiliary contacts instantaneous 1 contact operational current at AC-12 maximum operational current at AC-15 1 • at 300 V rated value 1A operational current at DC-12 - • at 600 V rated value 1A operational current at DC-12 - • at 600 V rated value 6A • at 40 V rated value 6A • at 40 V rated value 6A • at 40 V rated value 6A | | 40 VA |
| • at 60 Hz2 VAclosing power of magnet coil at DC23 Wholding power of magnet coil at DC1 Wclosing delay-• at AC35 110 ms• at DC35 110 ms• at AC30 55 ms• at DC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-151• at 200 V rated value3A• at 400 V rated value3A• at 400 V rated value1A• at 400 V rated value1A• at 400 V rated value3A• at 400 V rated value1A• at 400 V rated value3A• at 400 V rated value3A• at 400 V rated value1A• at 400 V rated value3A• at 400 V rated value1A• at 400 V rated value1A• at 400 V rated value3A• at 400 V rated value1A• at 400 V rated value | | 2.1/4 |
| closing power of magnet coil at DC23 Wholding power of magnet coil at DC1 Wclosing delay1 W• at AC35 110 ms• at DC35 110 msopening delay35 110 ms• at AC30 55 ms• at AC30 55 ms• at DC30 55 ms• at DC10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A• at 200 V rated value3A• at 690 V rated value1Aoperational current at DC-1210 A• at 48 V rated value10 A• at 48 V rated value6A• at 48 V rated value6A• at 48 V rated value3A• at 100 V rated value3A• at 220 V rated value3A• at 110 V rated value3A• at 110 V rated value3A• at 122 V rated value3A• at 12 | | |
| holding power of magnet coil at DC1 Wclosing delay35 110 ms• at AC35 110 ms• at DC35 110 msopening delay30 55 ms• at AC30 55 ms• at AC30 55 ms• at DC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-150• at 230 V rated value10 A• at 430 V rated value1 Aoperational current at DC-1210 A• at 44 V rated value10 A• at 450 V rated value1 Aoperational current at DC-120• at 46 V rated value10 A• at 46 V rated value10 A• at 47 value10 A• at 48 V rated value10 A• at 49 V rated value10 A• at 40 V rated value10 A• at 45 V rated value10 A• at 45 V rated value10 A• at 45 V rated value10 A• at 24 V rated value10 A• at 25 V rated value10 A• at 26 V rated value10 A• at 27 V rated value10 A• at 48 V rated value10 A• at 20 V rated value10 A• at 20 V rated value10 A• at 220 V rated value | | |
| closing delay at AC • at AC 35 110 ms • at AC 35 110 ms opening delay at AC • at AC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 number of NC contacts for auxiliary contacts instantaneous 1 contact 1 operational current at AC-12 maximum 10 A • at 200 V rated value 1 A operational current at AC-12 maximum 10 A • at 200 V rated value 1 A operational current at DC-12 • at 24 V rated value • at 24 V rated value 10 A • at 40 V rated value 6 A <t< td=""><td></td><td></td></t<> | | |
| • at AC35 110 ms• at DC35 110 msopening delay• at AC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value3A• at 690 V rated value1Aoperational current at DC-12 • at 24 V rated value10 Aoperational current at DC-12 • at 25 V rated value10 Aoperational current at DC-12 • at 25 V rated value0A• at 690 V rated value6A• at 125 V rated value3A• at 20 V rated value1Aoperational current at DC-12 • at 24 V rated value10 A• at 690 V rated value6A• at 125 V rated value1A• at 20 V rated value3A• at 125 V rated value3A• at 125 V rated value1A• at 200 V rated value3A• at 200 V rated | | I VV |
| • at DC35 110 msopening delay 55 ms• at AC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 4230 V rated value• at 230 V rated value10 A• at 690 V rated value1 Aoperational current at DC-12 424 V rated value• at 400 V rated value1 Aoperational current at DC-12 4140 V rated value• at 250 V rated value1 Aoperational current at DC-12 4140 V rated value• at 250 V rated value1 Aoperational current at DC-12 4140 V rated value• at 250 V rated value1 Aoperational current at DC-12 4120 V rated value• at 250 V rated value1 A• at 250 V rated value1 A• at 250 V rated value3 A• at 125 V rated value3 A• at 125 V rated value1 A• at 220 V rated value1 A• at 250 V rated value1 A< | | 25 440 mg |
| opening delay• at AC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxtiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15•• at 230 V rated value10 A• at 690 V rated value3 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 40 V rated value6 A• at 212 V rated value3 A• at 220 V rated value1 Aoperational current at DC-1210 A• at 212 V rated value1 A• at 220 V rated value3 A• at 220 V rated value1 A• at 220 V rated value1 A• at 220 V rated value3 A• at 600 V rated value3 A | | |
| • at AC30 55 ms• at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-150• at 230 V rated value3 A• at 600 V rated value1 Aoperational current at DC-120• at 600 V rated value6 A• at 600 V rated value3 A• at 600 V rated value6 A• at 110 V rated value3 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value6 A• at 600 V rated value1 A• at 600 V rated value </td <td></td> <td>35 110 ms</td> | | 35 110 ms |
| • at DC30 55 msarcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-150• at 230 V rated value10 A• at 400 V rated value2A• at 690 V rated value10 Aoperational current at DC-120• at 24 V rated value10 A• at 48 V rated value6A• at 110 V rated value3A• at 125 V rated value3A• at 125 V rated value10 A• at 125 V rated value10 A• at 125 V rated value10 A• at 220 V rated value10 A• at 125 V rated value10 A• at 600 V rated value10 A | | 20 55 mg |
| arcing time10 20 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuitInumber of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15I• at 230 V rated value3 A• at 600 V rated value1 Aoperational current at DC-12I• at 24 V rated value10 A• at 60 V rated value6 A• at 110 V rated value6 A• at 125 V rated value3 A• at 220 V rated value10 A• at 60 V rated value6 A• at 60 V rated value10 A• at 60 V rated value10 A• at 60 V rated value6 A• at 60 V rated value10 A• at 220 V rated value10 A• at 220 V rated value10 A• at 220 V rated value10 A• at 600 V rated value10 A• at 6 | | |
| control version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-150• at 230 V rated value10 A• at 400 V rated value2 A• at 690 V rated value1 Aoperational current at DC-120• at 24 V rated value10 A• at 250 V rated value1 Aoperational current at DC-120• at 260 V rated value1 A• at 270 V rated value1 A• at 28 V rated value1 A• at 29 V rated value1 A• at 24 V rated value1 A• at 25 V rated value1 A• at 20 V rated value1 A• at 20 V rated value1 A• at 20 V rated value1 A• at 220 V rated value2 A• at 220 V rated value1 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A | | |
| Auxiliary circuit 1 number of NC contacts for auxiliary contacts instantaneous contact 1 number of NO contacts for auxiliary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 0 • at 230 V rated value 10 A • at 200 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12 0 • at 24 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 10 A • at 400 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 6 A • at 60 V rated value 3 A • at 20 V rated value 1 A operational current at DC-12 0 A • at 24 V rated value 6 A • at 60 V rated value 2 A • at 20 V rated value 1 A • at 220 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A | | |
| number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value1 Aoperational current at DC-12 • at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value3 A• at 220 V rated value10 A• at 60 V rated value10 A• at 220 V rated value10 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A | | Standard AT - AZ |
| contactnumber of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12• at 24 V rated value6 A• at 60 V rated value3 A• at 110 V rated value2 A• at 60 V rated value10 A• at 60 V rated value6 A• at 125 V rated value3 A• at 220 V rated value1 A• at 220 V rated value1 A• at 220 V rated value2 A• at 220 V rated value3 A• at 220 V rated value3 A• at 220 V rated value1 A• at 220 V rated value3 A• at 220 V rated value1 A• at 600 V rated value0.15 A | | |
| contactoperational current at AC-12 maximum10 Aoperational current at AC-15-• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value6 A• at 60 V rated value3 A• at 24 V rated value6 A• at 60 V rated value3 A• at 60 V rated value6 A• at 10 V rated value3 A• at 25 V rated value3 A• at 125 V rated value1 A• at 200 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A | contact | |
| operational current at AC-15• at 230 V rated value10 A• at 400 V rated value3 A• at 400 V rated value2 A• at 500 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A | contact | |
| • at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 A• operational current at DC-12•• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 25 V rated value3 A• at 125 V rated value1 A• at 125 V rated value1 A• at 220 V rated value2 A• at 600 V rated value1 A• at 220 V rated value2 A• at 600 V rated value1 A• at 600 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A | • | 10 A |
| • at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A | - | |
| • at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value1 A• at 220 V rated value1 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value0.15 A | | |
| • at 690 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | | |
| operational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | • at 500 V rated value | |
| • at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | | 1A |
| • at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | operational current at DC-12 | |
| • at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | | |
| • at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | | |
| • at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A | • at 60 V rated value | |
| at 220 V rated value 1 A 0.15 A | • at 110 V rated value | 3 A |
| • at 600 V rated value 0.15 A | • at 125 V rated value | 2 A |
| | • at 220 V rated value | 1 A |
| opprational current at DC 13 | • at 600 V rated value | 0.15 A |
| | operational current at DC-13 | |
| • at 24 V rated value 10 A | • at 24 V rated value | 10 A |
| • at 48 V rated value 2 A | at 48 V rated value | 2 A |

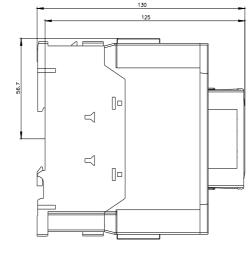
| - at CO \/ rated welling | | |
|---|---|--|
| at 60 V rated value | 2 A | |
| at 110 V rated value | 1A | |
| • at 125 V rated value | 0.9 A | |
| at 220 V rated value | 0.3 A | |
| at 600 V rated value | 0.1 A | |
| contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) | | |
| UL/CSA ratings | | |
| full-load current (FLA) for 3-phase AC motor | | |
| at 480 V rated value | 40 A | |
| at 600 V rated value | 41 A | |
| yielded mechanical performance [hp] | | |
| for single-phase AC motor | | |
| — at 110/120 V rated value | 3 hp | |
| — at 230 V rated value | 7.5 hp | |
| for 3-phase AC motor | | |
| — at 200/208 V rated value | 10 hp | |
| — at 220/230 V rated value | 15 hp | |
| — at 460/480 V rated value | 30 hp | |
| — at 575/600 V rated value | 40 hp | |
| contact rating of auxiliary contacts according to UL | A600 / P600 | |
| Short-circuit protection | | |
| design of the fuse link | | |
| for short-circuit protection of the main circuit | | |
| — with type of coordination 1 required | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) | |
| — with type of assignment 2 required | gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) | |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) | |
| 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 | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 | |
| side-by-side mounting | Yes | |
| height | 114 mm | |
| width | 55 mm | |
| depth | 130 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 | |
| Connections/ Terminals | | |
| type of electrical connection | | |
| for main current circuit | screw-type terminals | |
| for auxiliary and control circuit | spring-loaded terminals | |
| at contactor for auxiliary contacts | | |
| of magnet coil | Spring-type terminals | |
| • of magnet con | Spring-type terminals Spring-type terminals | |
| type of connectable conductor cross-sections for main contacts | | |
| | | |
| type of connectable conductor cross-sections for main contacts | Spring-type terminals | |

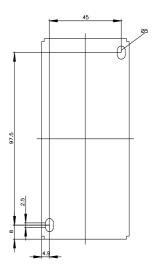
| finely stranded w | ith core end processing | | 1 35 mm² | | |
|---|---|---|---|------------------------------|---|
| connectable conducto | connectable conductor cross-section for auxiliary contacts | | | | |
| solid or stranded | | | 0.5 2.5 mm ² | | |
| finely stranded with core end processing | | 0.5 1.5 mm² | | | |
| finely stranded w | finely stranded without core end processing | | 0.5 2.5 mm² | | |
| type of connectable co | onductor cross-section | s | | | |
| for auxiliary containing | acts | | | | |
| — solid or stra | inded | | 2x (0.5 2.5 mm²) | | |
| — finely strand | ded with core end proces | sing | 2x (0.5 1.5 mm²) | | |
| — finely strand | ded without core end proc | cessing | 2x (0.5 2.5 mm²) | | |
| for AWG cables f | for auxiliary contacts | | 2x (20 14) | | |
| | d connectable conduct | or cross | | | |
| section | | | 40 4 | | |
| for main contacts | | | 18 1 | | |
| for auxiliary conta | acts | | 20 14 | | |
| Safety related data | | | | | |
| product function | | | N. | | |
| | cording to IEC 60947-4-1 | | Yes | | |
| | operation according to IE | | No | | |
| | mand rate according to S | N 31920 | 1 000 000 | | |
| proportion of dangero | | | 10.0/ | | |
| | rate according to SN 319 | | 40 % | | |
| | d rate according to SN 31 | | 73 % | | |
| | w demand rate according | | 100 FIT | | |
| 61508 | nterval or service life acco | ording to IEC | 20 a | | |
| protection class IP on | the front according to | IEC 60529 | IP20 | | |
| touch protection on th | ne front according to IE | C 60529 | finger-safe, for vertical co | ntact from the front | |
| suitability for use | | | | | |
| safety-related sw | ritching OFF | safety-related switching OFF | | | |
| | | | Yes | | |
| Certificates/ approvals | | | | | |
| Certificates/ approvals General Product Appr | roval | | | | |
| | | | | | |
| | roval Confirmation | (m) | | Miscellaneous | KC |
| | |) | (h) | Miscellaneous | KC |
| | | | <u>U</u> | Miscellaneous | KC |
| | | (CCC) | UL UL | Miscellaneous | KC |
| | | | UL UL | Miscellaneous | KC |
| General Product Appr | Confirmation | CCC Functional Safety/Safety of | UL | | |
| General Product Appr | | CCC Functional Safety/Safety o chinery | UL | | KC Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery | f Ma- Declaration of C | | |
| General Product Appr | Confirmation | Safety/Safety o chinery Type Examination | f Ma- Declaration of C | | Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery | f Ma- Declaration of C | | Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery Type Examination | f Ma- Declaration of C | | Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery Type Examination | f Ma- Declaration of C | onformity | Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery Type Examination | f Ma- Declaration of C | onformity | Test Certificates |
| General Product Appr | Confirmation | Safety/Safety o chinery Type Examination | f Ma- Declaration of C | onformity | Test Certificates |
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| General Product Appr CSA General Product Approval EFRE Test Certificates Type Test Certific- ates/Test Report | Confirmation EMC | Safety/Safety o chinery Type Examination tificate | f Ma- Declaration of C UC Cer- UC CEA | onformity EG-Konf. | Test Certificates Special Test Certificates ate |
| General Product Appr CSA General Product Approval EFRE Test Certificates Type Test Certific- ates/Test Report | Confirmation EMC | Safety/Safety o chinery Type Examination tificate | f Ma- Declaration of C UC UC UC UC UC | onformity EG-Konf. | Test Certificates Special Test Certificates ate |
| General Product Appr CSA General Product Approval EFRE Test Certificates Type Test Certific- ates/Test Report | Confirmation EMC | Safety/Safety o chinery Type Examination tificate | f Ma- Declaration of C UC Cer- UC CEA | onformity EG-Konf. | Test Certificates Special Test Certificates ate |
| General Product Appr CSA General Product Approval EFRE Test Certificates Type Test Certific- ates/Test Report | Confirmation EMC | Safety/Safety o chinery Type Examination tificate | f Ma- Declaration of C UC Cer- UC CEA | onformity EG-Konf. | Test Certificates Special Test Certificates ate |

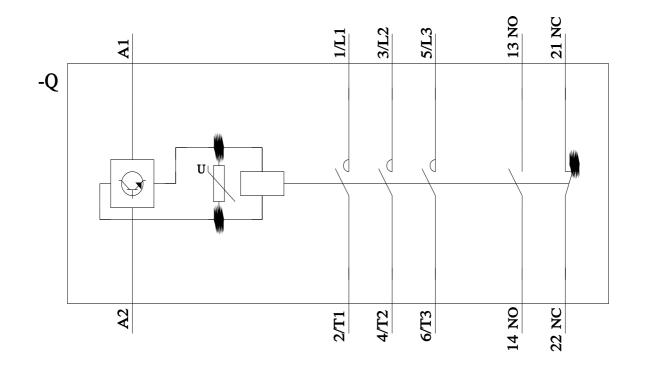
| Further information | |
|---|--|
| Siemens has decided to exit the Russian market (see h https://press.siemens.com/global/en/pressrelease/siemens | |
| Siemens is working on the renewal of the current EAC Please contact your local Siemens office on the status of v EAC relevant market (other than the sanctioned EAEU me | alidity of the EAC certification if you intend to import or offer to supply these products to an |
| Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/10981 | <u>3875</u> |
| Information- and Downloadcenter (Catalogs, Brochure: https://www.siemens.com/ic10 | s,) |
| Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produ | <u>ict?mlfb=3RT2035-3NP30</u> |
| Cax online generator http://support.automation.siemens.com/WW/CAXorder/defa | ault.aspx?lang=en&mlfb=3RT2035-3NP30 |
| Service&Support (Manuals, Certificates, Characteristic https://support.industry.siemens.com/cs/ww/en/ps/3RT203 | |
| Image database (product images, 2D dimension drawin http://www.automation.siemens.com/bilddb/cax_de.aspx?n | ıgs, 3D models, device circuit diagrams, EPLAN macros,) ∖lfb=3RT2035-3NP30⟨=en |
| Characteristic: Tripping characteristics, I ² t, Let-throug | n current |

Characteristic: Tripping characteristics, I4t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3NP30/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3NP30&objecttype=14&gridview=view1









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