SIEMENS

Data sheet

3RT2015-2AK61-Z W97



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00, multi-unit packaging, pack = 32 units

| product designation Power contactor general technical data 3RT2 General technical data size of contactor 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 per pole 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.4 W surge voltage resistance - • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 6.094/-11 • at AC 10.5g / 5 ms, 4.2g / 10 ms shock resistance at rectangular impulse - • at AC 30.000 000 • at AC 30.000 000 • of contactor with added electronically optimized auxiliary switch block typical 10 000 000< | product brand name | SIRIUS |
|---|--|----------------------------|
| product type designation 3RT2 General technical dats | • | |
| General technical data Solo size of contactor S00 product extension • • function module for communication No • auxiliary switch Yes • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • of main circuit rated value 6 kV • of auxiliary sitch bulse for protective separation between coil and main contacts according to EN 0097-1 400 V • at AC 6,7g / 5 ms, 4,2g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • at AC 30 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) <td></td> <td></td> | | |
| size of contactor S00 product extension No • auxilary switch Yes power loss [W] for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.4 W surge voltage resistance 6 kV • of main circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contrasts according to EN 00947-11 400 V shock resistance at rectangular impulse 6.7g / 5 ms, 4.2g / 10 ms • at AC 10.5g / 5 ms, 6.6g / 10 ms mechanical service life (operating cycles) 90 0000 • of the contactor typical 30 000 000 • of the contactor with added electronically optimized auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 • of the contactor with added auxilary switch block typical 10 000 000 reference code according to EE 81346-2 Q Substance Prohibitance (Date) 200 m ambient temperature -55 +60 °C • during storage | | JR12 |
| product extension No • function module for communication No • auxiliary switch Yes power loss (W) for rated value of the current 0.6 W • at AC in hot operating state 0.6 W • at AC in hot operating state per pole 0.2 W • without load current share typical 4.4 W surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • at AC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • of contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 refe | | 000 |
| • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current | | 500 |
| • auxiliary switch Yes power loss [W] for rated value of the current | | |
| power loss [W] for rated value of the current 6 | | |
| • at AC in hot operating state0.6 W• at AC in hot operating state per pole0.2 W• without load current share typical4.4 Wsurge voltage resistance6 KV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6.7g / 5 ms, 4.2g / 10 ms• at AC6.7g / 5 ms, 6.6g / 10 ms• at AC10.5g / 5 ms, 6.6g / 10 ms• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added suxiliary switch block typical10 000 000• during operation-25 +60 °C• during storage-55 +80 °C <td></td> <td>Yes</td> | | Yes |
| • at AC in hot operating state per pole0.2 W• without load current share typical4.4 Wsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• at AC6.7 / 5 ms, 4.2g / 10 msshock resistance at rectangular impulse6.7 / 5 ms, 4.2g / 10 ms• at AC6.7 / 5 ms, 4.2g / 10 msshock resistance at rectangular impulse90 00 000• at AC6.7 / 5 ms, 6.6g / 10 msmechanical service life (operating cycles)000 000• of the contactor with added electronically optimized auxiliary switch block typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• during operation-25 +60 °C• during storage-55 +80 °C• lating storage-55 +80 °C• lating the humidity minimum10 %relative humidity minimum10 %setative humidity minimum10 %setative humidity minimum50 % | | |
| • without load current share typical 4.4 W surge voltage resistance 6 KV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6 k/V • at AC 6 kJ / 0 ms shock resistance with sine pulse 6 kJ / 0 ms • at AC 10.5g / 5 ms, 6,6g / 10 ms • at AC 10.5g / 5 ms, 6,6g / 10 ms • at AC 10.5g / 5 ms, 6,6g / 10 ms • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2 000 m ambient conditions 2 000 m • installation atitude at height above sea level maximum 2 000 m • during operation -25 +60 °C • during storage -55 +80 °C | | |
| surge voltage resistance 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V shock resistance at rectangular impulse 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at AC 10.5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 2000 m ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m auxiliary storage -55 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % | at AC in hot operating state per pole | 0.2 W |
| • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 400 V • at AC 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms • at AC 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Ambient conditions 2000 m ambient temperature - • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % | without load current share typical | 4.4 W |
| • 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 6,7g / 5 ms, 4,2g / 10 ms • at AC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse 6,7g / 5 ms, 6,6g / 10 ms • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 7 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % 95 % 55 % | surge voltage resistance | |
| 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 fock resistance with sine pulse at AC 10,5g / 5 ms, 4,2g / 10 ms 6,7g / 5 ms, 4,2g / 10 ms mechanical service life (operating cycles) 0,5g / 5 ms, 6,6g / 10 ms • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m ambient temperature -55 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 400 % | of main circuit rated value | 6 kV |
| coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxil | of auxiliary circuit rated value | 6 kV |
| • at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse | | 400 V |
| shock resistance with sine pulse 10,5g / 5 ms, 6,6g / 10 ms mechanical service life (operating cycles) 10,5g / 5 ms, 6,6g / 10 ms • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 40 mino circuit | shock resistance at rectangular impulse | |
| • at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles) | • at AC | 6,7g / 5 ms, 4,2g / 10 ms |
| mechanical service life (operating cycles) 30 000 000 • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit Johon Second | shock resistance with sine pulse | |
| • of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 % | • at AC | 10,5g / 5 ms, 6,6g / 10 ms |
| of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor according to IEC 81346-2 Q ambient temperature of with added auxiliary switch block typical <li< td=""><td>mechanical service life (operating cycles)</td><td></td></li<> | mechanical service life (operating cycles) | |
| auxiliary switch block typical I0 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 % | of contactor typical | 30 000 000 |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % | | 5 000 000 |
| Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 % | of the contactor with added auxiliary switch block typical | 10 000 000 |
| Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 % | reference code according to IEC 81346-2 | Q |
| 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 % | Substance Prohibitance (Date) | 10/01/2009 |
| ambient temperature -25 +60 °C • 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 -25 +60 °C | Ambient conditions | |
| • 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 % | installation altitude at height above sea level maximum | 2 000 m |
| | ambient temperature | |
| relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 % | during operation | -25 +60 °C |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum Main circuit | during storage | -55 +80 °C |
| maximum | relative humidity minimum | 10 % |
| | | 95 % |
| number of poles for main current circuit 3 | Main circuit | |
| | number of poles for main current circuit | 3 |
| number of NO contacts for main contacts 3 | number of NO contacts for main contacts | 3 |
| operating voltage | operating voltage | |
| • at AC-3 rated value maximum 690 V | at AC-3 rated value maximum | 690 V |

| at AC-3e rated value maximum | 690 V |
|---|---------------------|
| operational current | 030 V |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 18 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 18 A |
| value — up to 690 V at ambient temperature 60 °C rated | 16 A |
| • at AC-3 | |
| | 7 A |
| — at 400 V rated value | 6A |
| — at 500 V rated value | 4.9 A |
| — at 690 V rated value | 4.9 A |
| • at AC-3e | 7.4 |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-4 at 400 V rated value | 6.5 A |
| • at AC-5a up to 690 V rated value | 15.8 A |
| • at AC-5b up to 400 V rated value | 5.8 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 4 A |
| — up to 400 V for current peak value n=20 rated value | 4 A |
| — up to 500 V for current peak value n=20 rated value | 3.8 A |
| — up to 690 V for current peak value n=20 rated value | 3.6 A |
| ● at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | 2.7 A |
| — up to 400 V for current peak value n=30 rated value | 2.7 A |
| — up to 500 V for current peak value n=30 rated value | 2.5 A |
| — up to 690 V for current peak value n=30 rated value | 2.4 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 2.5 mm ² |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 2.6 A |
| • at 690 V rated value | 1.8 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 1.5 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.42 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 8.4 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.5 A |
| with 3 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 15 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.7 A |
| • at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 0.35 A |
| — at 110 V rated value | 0.1 A |
| | |

| with 2 current paths in series at DC-3 at DC-5 | |
|--|---|
| - at 24 V rated value | 15 A |
| — at 60 V rated value | 3.5 A |
| — at 110 V rated value | 0.25 A |
| with 3 current paths in series at DC-3 at DC-5 | 0.25 A |
| - at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| | 15 A |
| — at 110 V rated value | 1.2 A |
| — at 220 V rated value — at 440 V rated value | 0.14 A |
| | 0.14 A |
| at 600 V rated value | 0.14 A |
| operating power at AC-2 at 400 V rated value | 3 kW |
| • at AC-2 at 400 v fated value | J KIV |
| - at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| | |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value at AC-3e | 4 kW |
| | 1.5 MM |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC- 4 | |
| • at 400 V rated value | 1.15 kW |
| • at 690 V rated value | 1.15 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 1.5 kVA |
| up to 400 V for current peak value n=20 rated value | 2.7 kVA |
| up to 500 V for current peak value n=20 rated value | 3.3 kVA |
| up to 690 V for current peak value n=20 rated value | 4.3 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1 kVA |
| up to 400 V for current peak value n=30 rated value | 1.8 kVA |
| up to 500 V for current peak value n=30 rated value | 2.2 kVA |
| up to 690 V for current peak value n=30 rated value | 2.9 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| - | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum | 67 A; Use minimum cross-section acc. to AC-1 rated value |
| Initial to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum | 52 A; Use minimum cross-section acc. to AC-1 rated value |
| Initial to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum | 43 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | To A, USE MINIMUM GUSS-SECTION ACC. TO ACC' I TALEU VAIUE |
| • at AC | 10 000 1/h |
| • at AC operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-1 maximum • at AC-2 maximum | 750 1/h |
| at AC-2 maximum at AC-3 maximum | 750 1/h |
| at AC-3 maximum at AC-3e maximum | 750 1/h |
| at AC-3e maximum at AC-4 maximum | 250 1/h |
| • at AC-4 maximum Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 110 V |
| at 50 Hz rated value at 60 Hz rated value | 120 V |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| apparent pick-up power of magnet coil at AC | |

| ● at 50 Hz | 26.4 VA |
|--|---|
| • at 60 Hz | 26.4 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.81 |
| • at 60 Hz | 0.81 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 4.4 VA |
| • at 60 Hz | 4.4 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 |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NO contacts for auxiliary contacts instantaneous | 1 |
| 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 | 1A |
| 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 | 1A |
| at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| at 24 V rated value | 10 A |
| • at 48 V rated value | 2 A |
| at 60 V rated value | 2 A |
| • at 110 V rated value | 1A |
| at 125 V rated value | 0.9 A |
| at 125 V rated value at 220 V rated value | 0.3 A |
| at 220 v rated value at 600 V rated value | 0.3 A 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 | 4.9.4 |
| at 480 V rated value | 4.8 A |
| at 600 V rated value | 6.1 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | 0.05 hr |
| - at 110/120 V rated value | 0.25 hp |
| — at 230 V rated value | 0.75 hp |
| • for 3-phase AC motor | 4.5 hz |
| - at 200/208 V rated value | 1.5 hp |
| - at 220/230 V rated value | 2 hp |
| — at 460/480 V rated value | 3 hp |
| - at 575/600 V rated value | 5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |

- with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) 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 | 70 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | |
| with side-by-side mounting | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — at the side | 6 mm |
| — downwards | 10 mm |
| for live parts | |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | spring-loaded terminals |
| for auxiliary and control circuit | spring-loaded terminals |
| at contactor for auxiliary contacts | Spring-type terminals |
| of magnet coil | Spring-type terminals |
| type of connectable conductor cross-sections for main contacts | opinig-type terminals |
| solid | 2x (0.5 4 mm²) |
| solid solid or stranded | 2x (0.5 4 mm ²) |
| finely stranded with core end processing | 2x (0,5 2.5 mm ²) |
| finely stranded with core end processing finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| connectable conductor cross-section for main contacts | 2x (0.0 2.0 mm) |
| solid | 0.5 4 mm² |
| | 0.5 4 mm ² |
| stranded finally stranded with core and processing | 0.5 4 mm ² |
| finely stranded with core end processing finely stranded without core and processing | 0.5 2.5 mm ² |
| finely stranded without core end processing | 0.5 2.5 11111 |
| connectable conductor cross-section for auxiliary contacts | $0.5 - 4 \text{ mm}^2$ |
| solid or stranded finally stranded with core and processing | 0.5 4 mm ² |
| finely stranded with core end processing finely stranded without core end processing | 0.5 2.5 mm² 0.5 2.5 mm² |
| finely stranded without core end processing | 0.0 2.0 mm² |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | $2 \times (0.5 - 4 \text{ mm}^2)$ |
| — solid or stranded | 2x (0,5 4 mm ²) |
| finely stranded with core end processing | 2x (0.5 2.5 mm ²) |
| — finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 12) |
| AWG number as coded connectable conductor cross section | |
| for main contacts | 20 12 |
| for auxiliary contacts | 20 12 |
| Safety related data | |
| product function | |
| • mirror contact according to IEC 60947-4-1 | Yes; with 3RH29 |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures | |
| | |

| with low demand rate according to SN 31920 | 40 % |
|---|--|
| with high demand rate according to SN 31920 | 73 % |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| suitability for use | |
| safety-related switching on | Yes |
| safety-related switching OFF | Yes |
| Certificates/ approvals | |
| | |

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AK61-Z W97

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AK61-Z W97

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AK61-Z W97

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

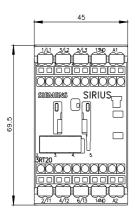
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2AK61-Z W97&lang=en

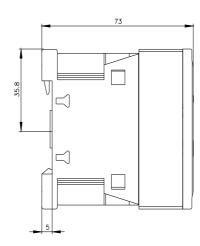
Characteristic: Tripping characteristics, I²t, Let-through current

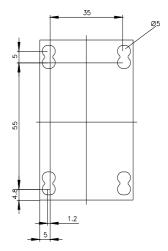
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AK61-Z W97/char

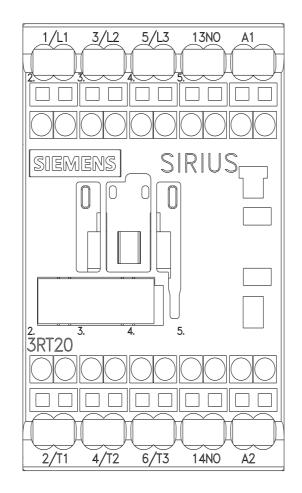
Further characteristics (e.g. electrical endurance, switching frequency)

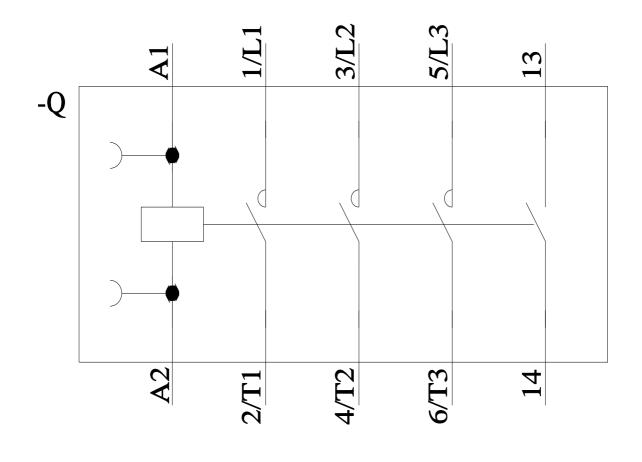
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AK61-Z W97&objecttype=14&gridview=view1











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