SIEMENS

Data sheet

3RT1275-6NB36

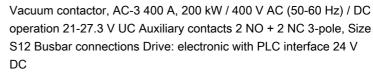




Figure similar

| Product brand name | SIRIUS |
|---|---|
| Product designation | Vacuum contactor |
| Product type designation | 3RT12 |
| General technical data | |
| Size of contactor | S12 |
| Product extension | |
| function module for communication | No |
| Auxiliary switch | Yes |
| Surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation | |
| between coil and main contacts acc. to EN | 690 V |
| 60947-1 | |
| Protection class IP | |
| • on the front | IP00; IP20 on the front with cover / box terminal |
| • of the terminal | IP00 |
| | |

| Shock registered at regtored impulse | | | |
|--|-----------------------------|--|--|
| Shock resistance at rectangular impulse | 8 Eq. / E.mo. 4.2q. / 10 mg | | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms | | |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms | | |
| Shock resistance with sine pulse | | | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms | | |
| • at DC | 13,4g / 5 ms, 6,5g / 10 ms | | |
| Mechanical service life (switching cycles) | | | |
| of contactor typical | 10 000 000 | | |
| of the contactor with added electronics- compatible auxiliary switch block typical | 5 000 000 | | |
| of the contactor with added auxiliary switch block typical | 10 000 000 | | |
| Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | К | | |
| Reference code acc. to DIN EN 81346-2 | Q | | |
| 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 | | |
| 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 | 1 000 V | | |
| Operating current | | | |
| • at AC-1 at 400 V | | | |
| — at ambient temperature 40 °C rated value | 610 A | | |
| • at AC-1 | | | |
| — up to 690 V at ambient temperature 40 °C rated value | 610 A | | |
| — up to 690 V at ambient temperature 60 °C rated value | 550 A | | |
| — up to 1000 V at ambient temperature 40 °C rated value | 610 A | | |
| | | | |
| — up to 1000 V at ambient temperature 60 °C rated value | 550 A | | |
| — up to 1000 V at ambient temperature 60 °C | 550 A 400 A | | |
| — up to 1000 V at ambient temperature 60 °C rated value | | | |
| up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value | | | |
| up to 1000 V at ambient temperature 60 °C rated value at AC-2 at 400 V rated value at AC-3 | 400 A | | |

| at AC-1 • at 60 °C minimum permissible 240 mm ² 240 mm ² 240 mm ² 240 mm ² 2008 mm | | |
|---|--|---------------------|
| at AC-4 at 400 V rated value 350 Å Connectable conductor cross-section in main circuit at AC-1 240 mm² • at 60 °C minimum permissible 300 mm² Operating current for approx. 20000 operating cycles at AC-4 175 Å • at 600 V rated value 123 Å Operating power 123 Å • at 400 V rated value 208 kW - at 230 V at 60 °C rated value 208 kW - at 200 V rated value 362 kW - at 400 V rated value 362 kW - at 400 V rated value 208 kW - at 400 V rated value 208 kW - at 600 V rated value 208 kW - at 600 V rated value 208 kW - at 400 V rated value 204 kW - at 600 V rated value 208 kW - at 600 V rated value 208 kW - at 600 V rated value 208 kW - at 600 V rated value 200 kW - at 200 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 400 kW - at 400 V rated value 400 kW - at 600 V rated value< | — at 690 V rated value | 400 A |
| Consclube conductor cross-section in main circuit at AC-1• at 60 °C minimum permissible240 mm²• at 40 °C minimum permissible300 mm²Operating current for approx. 20000 operating cycles at AC-4175 A• at 400 V rated value123 AOperating power123 A• at AC-1 at 230 V at 60 °C rated value208 kW- at 400 V rated value624 kW- at 690 V rated value624 kW- at 600 V rated value905 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 400 V rated value500 kW- at 600 V rated value72 kWThermal short-line current limited to 10 s3 200 APower loss [V] at AC-3 at 400 V for rated value400 t/h- at AC1 000 t/h- at AC1 000 t/h- at AC1 | — at 1000 V rated value | 400 A |
| at AC-1 • at 60 °C minimum permissible 240 mm ² 20000 operating 2002 met for approx. 20000 operating 2002 at AC-4 • at 400 V rated value 175 A • at 690 V rated value 202 kW • at AC-1 • at 230 V at 60 °C rated value 208 kW • at 400 V rated value 208 kW • at 400 V rated value 208 kW • at 400 V rated value 208 kW • at 690 V rated value 208 kW • at 690 V rated value 208 kW • at 690 V rated value 208 kW • at 600 °C rated value 208 kW • at 600 V rated value 200 kW • at 600 °C rated value 200 kW • at 600 °C rated value 200 kW • at 600 °C rated value 200 kW • at 600 V rated value 2 | • at AC-4 at 400 V rated value | 350 A |
| • at 60 °C minimum permissible240 mm²• at 40 °C minimum permissible300 mm²Operating current for approx. 200000 operating cycles at AC-4175 A• at 400 V rated value123 AOperating power123 A• at AC-1208 kW- at 230 V at 60 °C rated value208 kW- at 400 V rated value208 kW- at 690 V rated value208 kW- at 690 V rated value208 kW- at 690 V rated value200 kW- at 690 V rated value200 kW- at 1000 V rated value200 kW- at 230 V rated value200 kW- at 230 V rated value200 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 500 V rated value200 kW- at 600 V rated value200 kW- at 500 V rated value200 kW- | Connectable conductor cross-section in main circuit | |
| at 40 °C minimum permissible 300 mm² Operating current for approx. 200000 operating cycles at AC-4 175 Å • at 400 V rated value 123 Å Operating power 123 Å • at 400 V rated value 208 kW - at 230 V rated value 362 kW - at 400 V rated value 362 kW - at 690 V rated value 50 kW - at 690 V rated value 208 kW - at 690 V rated value 200 kW - at 100 V rated value 200 kW - at 200 V rated value 200 kW - at 500 V rated value 200 kW - at 600 V rated value 200 kW - at 6 | at AC-1 | |
| Operating current for approx. 20000 operating cycles at AC-4 175 A • at 400 V rated value 123 A Operating power 123 A • at 690 V rated value 208 kW - at 230 V at 60 °C rated value 362 kW - at 400 V rated value 362 kW - at 400 V rated value 550 kW - at 690 V rated value 624 kW - at 690 V rated value 624 kW - at 690 V rated value 624 kW - at 690 V rated value 200 kW - at 690 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 200 V rated value 200 kW - at 200 V rated value 200 kW - at 300 V rated value 200 kW - at 300 V rated value 560 kW Operating power for approx. 200000 operating cycles at AC-4 400 kW - at 690 V rated value 560 kW Operating power for approx. 200000 operating cycles at AC-4 1000 kW - at 400 V rated value 98 kW • at AC0 V rated value 98 kW • at AC1 waite 1000 1/h • at AC2 at 400 | • at 60 °C minimum permissible | 240 mm ² |
| cycles at AC-4175 A• at 400 V rated value123 AOperating power123 A• at AC-1208 kW- at 400 V rated value362 kW- at 400 V rated value362 kW- at 400 V rated value550 kW- at 690 V rated value624 kW- at 1000 V at 60 °C rated value905 kW- at 1000 V at 60 °C rated value905 kW- at 230 V rated value132 kW- at 230 V rated value132 kW- at 230 V rated value200 kW• at AC-3 at 200 V rated value200 kW- at 300 V rated value200 kW- at 300 V rated value200 kW- at 400 V rated value200 kW- at 400 V rated value200 kW- at 400 V rated value600 kW- at 400 V rated value600 kW- at 400 V rated value98 kW- at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating frequency1 000 1/h- at AC1 000 1/h- at AC1 000 1/h- at AC-11 000 1/h- at AC-2 maximum250 1/h- at AC-3 maximum250 1/h | • | 300 mm ² |
| at 650 V rated value123 AOperating power • at AC-1208 kW- at 230 V at 60 °C rated value362 kW- at 400 V rated value362 kW- at 400 V rated value550 kW- at 690 V rated value624 kW- at 690 V rated value624 kW- at 690 V rated value624 kW- at 600 V rated value624 kW- at 600 V rated value905 kW• at AC-2 at 400 V rated value200 kW• at AC-3 at 230 V rated value200 kW• at AC-3 at 200 V rated value200 kW• at 400 V rated value200 kW- at 400 V rated value200 kW- at 600 V rated value200 kW- at 600 V rated value560 kWOperating power for approx. 200000 operating cycles at AC-4172 kWThermal short-line current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 W• at AC1 000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum750 1/h | Operating current for approx. 200000 operating cycles at AC-4 | |
| Operating power• at AC-1- at 230 V at 60 °C rated value208 kW- at 400 V rated value362 kW- at 400 V rated value550 kW- at 690 V rated value624 kW- at 690 V rated value624 kW- at 690 V rated value905 kW- at 690 °C rated value905 kW- at 100 V at 60 °C rated value905 kW- at 100 V rated value200 kW- at 230 V rated value200 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 630 V rated value200 kW- at 630 V rated value200 kW- at 630 V rated value560 kW- at 630 V rated value560 kW- at 630 V rated value400 kW- at 630 V rated value560 kW- at 630 V rated value560 kW- at 630 V rated value3200 AOperating power for approx. 200000 operating cyclesat AC-498 kW• at 600 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor1 000 1/hNo-load switching frequency • at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum250 1/h• at AC-2 maximum250 1/h• at AC-4 maximum250 1/h | • at 400 V rated value | 175 A |
| at AC-1 at 230 V at 60 °C rated value 208 kW at 400 V rated value 362 kW at 400 V at 60 °C rated value 550 kW at 690 V rated value 624 kW at 690 V rated value 624 kW at 690 V rated value 624 kW at 600 V rated value 624 kW at 400 V rated value 200 kW at AC-3 at 230 V rated value 200 kW at 400 V rated value 200 kW at 690 V rated value 98 kW at 690 V rated value 98 kW at 690 V rated value 100 kW at 400 V rated value 1000 t/h 1000 t/h 1000 t/h at AC at AC<-3 maximum at AC<-3 maxim | • at 690 V rated value | 123 A |
| - at 230 V at 60 °C rated value 208 kW - at 400 V rated value 362 kW - at 400 V rated value 550 kW - at 690 V rated value 624 kW - at 600 V rated value 905 kW - at 1000 V rated value 200 kW • at AC-3 - - at 230 V rated value 200 kW • at A00 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 400 V rated value 200 kW - at 690 V rated value 200 kW - at 690 V rated value 560 kW Operating power for approx. 200000 operating cycles 560 kW Thermal short-time current limited to 10 s 3 200 A Power loss [W] at AC-3 at 400 V for rated value of the operating cycles 21 W • at AC 1 000 1/h | Operating power | |
| - at 400 V rated value 362 kW - at 400 V at 60 °C rated value 550 kW - at 690 V rated value 624 kW - at 690 V rated value 624 kW - at 690 V rated value 905 kW - at 1000 V rated value 905 kW - at 230 V rated value 200 kW - at 690 V rated value 200 kW - at 400 V rated value 86 kW • at 400 V rated value 172 kW Thermal short-time current limited to 10 s 3200 A Power loss [W] at AC-3 at 400 V for rated value of the oparating current per conductor 1000 1/h • at AC 1 000 1/h • at AC 1 000 1/h • at AC 1 000 1/h | ● at AC-1 | |
| at 400 V at 80 °C rated value550 kW- at 690 V rated value624 kW- at 690 V at 80 °C rated value624 kW- at 690 V at 80 °C rated value905 kW- at 1000 V at 60 °C rated value905 kW• at AC-2 at 400 V rated value200 kW• at AC-3 at 230 V rated value200 kW- at 400 V rated value200 kW- at 400 V rated value200 kW- at 690 V rated value200 kW- at 690 V rated value200 kW- at 690 V rated value250 kW- at 690 V rated value560 kWOperating power for approx. 20000 operating cyclesat AC-498 kW• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-line current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 W• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum250 1/h• at AC-2 maximum250 1/h | — at 230 V at 60 °C rated value | 208 kW |
| at 680 V rated value624 kW- at 680 V rated 0°C rated value624 kW- at 680 V rated 0°C rated value905 kW- at 680 V rated 0°C rated value905 kW• at AC-2 at 400 V rated value200 kW• at AC-3 at 230 V rated value132 kW- at 400 V rated value200 kW- at 500 V rated value200 kW- at 690 V rated value250 kW- at 690 V rated value560 kWOperating power for approx. 20000 operating cyclesat AC-4172 kW- at 400 V rated value98 kW• at 400 V rated value172 kW• at 400 V rated value172 kW• at 690 V rated value100 1/h• at AC-3 at 400 V for rated value of the operating current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of • at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum250 1/h• at AC-1 maximum250 1/h• at AC-3 maximum250 1/h | — at 400 V rated value | 362 kW |
| In close Funds FundsImage: Funds Funds- at 600 V at 60 °C rated value905 kW- at 1000 V at 60 °C rated value905 kW• at AC-2 at 400 V rated value200 kW• at AC-3132 kW- at 230 V rated value132 kW- at 400 V rated value200 kW- at 600 V rated value200 kW- at 600 V rated value200 kW- at 600 V rated value400 kW- at 600 V rated value560 kWOperating power for approx. 200000 operating cyclesat 400 V rated value98 kW• at 400 V rated value98 kW• at 400 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 W• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum250 1/h | — at 400 V at 60 °C rated value | 550 kW |
| at 1000 V at 60 °C rated value905 kW• at AC-2 at 400 V rated value200 kW• at AC-3132 kW at 230 V rated value200 kW at 400 V rated value200 kW at 400 V rated value200 kW at 650 V rated value250 kW at 650 V rated value560 kWOperating power for approx. 200000 operating cycles at AC-4• at 400 V rated value560 kWOperating power for approx. 200000 operating cycles at AC-4• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 A3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductorNo-load switching frequency• at AC1 000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum550 1/h | — at 690 V rated value | 624 kW |
| | — at 690 V at 60 °C rated value | 624 kW |
| at AC-3 at AC-3 at 230 V rated value 132 kW at 400 V rated value 200 kW at 500 V rated value 250 kW at 690 V rated value 400 kW at 1000 V rated value 560 kW Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 98 kW at 690 V rated value 172 kW Thermal short-time current limited to 10 s 3 200 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor at AC 1000 1/h at AC at DC 1000 1/h at AC-1 maximum at AC-2 maximum 250 1/h at AC-3 maximum 250 1/h | — at 1000 V at 60 °C rated value | 905 kW |
| at 230 V rated value132 kW at 400 V rated value200 kW at 500 V rated value250 kW at 690 V rated value400 kW at 1000 V rated value560 kWOperating power for approx. 200000 operating cycles200 kWat 400 V rated value98 kW- at 400 V rated value98 kW- at 690 V rated value98 kW- at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 W- at AC1 000 1/h- at AC-1 maximum50 1/h- at AC-2 maximum250 1/h- at AC-3 maximum750 1/h- at AC-4 maximum250 1/h | • at AC-2 at 400 V rated value | 200 kW |
| Index NationIndex Nation- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value560 kWOperating power for approx. 20000 operating cycles at AC-4560 kW• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency • at AC1 000 1/h• at DC1 000 1/hOperating frequency250 1/h• at AC-1 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | • at AC-3 | |
| at 500 V rated value250 kW at 690 V rated value400 kW at 1000 V rated value560 kWOperating power for approx. 200000 operating cycles at AC-48 kW• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor1 000 1/hNo-load switching frequency1 000 1/h• at AC1 000 1/h• at AC2 000 1/h• at AC-1 maximum200 1/h• at AC-2 maximum200 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h | — at 230 V rated value | 132 kW |
| | — at 400 V rated value | 200 kW |
| at 1000 V rated value560 kWOperating power for approx. 200000 operating cycles at AC-4-• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency • at AC1 000 1/h• at AC1 000 1/h• at AC200 AOperating frequency-• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | — at 500 V rated value | 250 kW |
| Operating power for approx. 200000 operating cycles at AC-4 98 kW • at 400 V rated value 98 kW • at 690 V rated value 172 kW Thermal short-time current limited to 10 s 3 200 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor 21 W No-load switching frequency 1 000 1/h • at AC 1 000 1/h • at AC-1 maximum 700 1/h • at AC-2 maximum 250 1/h • at AC-4 maximum 250 1/h | — at 690 V rated value | 400 kW |
| at AC-498 kW• at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency • at AC1 000 1/h• at AC1 000 1/h• at AC1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | — at 1000 V rated value | 560 kW |
| • at 400 V rated value98 kW• at 690 V rated value172 kWThermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency1 000 1/h• at AC1 000 1/h• at DC1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum250 1/h• at AC-4 maximum750 1/h• at AC-4 maximum250 1/h | Operating power for approx. 200000 operating cycles | |
| at 600 V rated value at 690 V rated value 172 kW Thermal short-time current limited to 10 s 3 200 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC 1 000 1/h 1 000 1/h Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum 250 1/h at AC-4 maximum | at AC-4 | |
| Thermal short-time current limited to 10 s3 200 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency • at AC1 000 1/h• at DC1 000 1/hOperating frequency • at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | • at 400 V rated value | 98 kW |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor21 WNo-load switching frequency • at AC • at DC1 000 1/hOperating frequency1 000 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | | |
| the operating current per conductorNo-load switching frequency• at AC1 000 1/h• at DC1 000 1/hOperating frequency• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h | | |
| • at AC1 000 1/h• at DC1 000 1/hOperating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 21 W |
| • at DC1 000 1/hOperating frequency700 1/h• at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | No-load switching frequency | |
| Operating frequency700 1/h• at AC-1 maximum250 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | ● at AC | 1 000 1/h |
| • at AC-1 maximum700 1/h• at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | • at DC | 1 000 1/h |
| • at AC-2 maximum250 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h | Operating frequency | |
| • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h | • at AC-1 maximum | 700 1/h |
| • at AC-4 maximum 250 1/h | • at AC-2 maximum | 250 1/h |
| | • at AC-3 maximum | 750 1/h |
| ontrol circuit/ Control | ● at AC-4 maximum | 250 1/h |
| | Control circuit/ Control | |

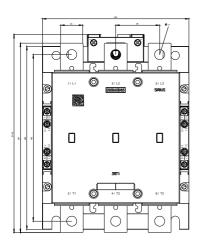
| Type of voltage of the control supply voltage | AC/DC |
|---|---|
| Control supply voltage at AC | |
| • at 50 Hz rated value | 21 27.3 V |
| • at 60 Hz rated value | 21 27.3 V |
| Control supply voltage at DC | |
| rated value | 21 27.3 V |
| Type of PLC-control input acc. to IEC 60947-1 | Туре 1 |
| Consumed current at PLC-control input acc. to IEC | 20 mA |
| 60947-1 maximum | |
| Operating range factor control supply voltage rated | |
| value of magnet coil at DC | |
| • initial value | 0.8 |
| • Full-scale value | 1.1 |
| Operating range factor control supply voltage rated | |
| value of magnet coil at AC | 0.8 1.1 |
| • at 50 Hz | |
| • at 60 Hz | 0.8 1.1 |
| Design of the surge suppressor | with varistor |
| Apparent pick-up power of magnet coil at AC | E70.) / A |
| • at 50 Hz | 570 V·A |
| Inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| Apparent holding power of magnet coil at AC | F C \ / A |
| • at 50 Hz | 5.6 V·A |
| Inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.8 |
| Closing power of magnet coil at DC | 800 W |
| Holding power of magnet coil at DC | 3.6 W |
| Closing delay | |
| • at AC | 60 90 ms |
| • at DC | 60 90 ms |
| Opening delay | |
| • at AC | 80 100 ms |
| • at DC | 80 100 ms |
| Arcing time | 10 15 ms |
| Control version of the switch operating mechanism | PLC-IN or Standard A1 - A2 (adjustable) |
| Auxiliary circuit | |
| Number of NC contacts for auxiliary contacts | 2 |
| instantaneous contact | 2 |
| Number of NO contacts for auxiliary contacts | 2 |
| instantaneous contact | 2 |
| Operating current at AC-12 maximum | 10 A |

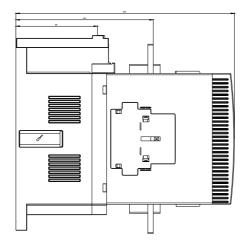
| Operating current at AC-15 | |
|--|---|
| at 230 V rated value | 6 A |
| at 400 V rated value | 3 A |
| at 500 V rated value | 2 A |
| at 690 V rated value | 1 A |
| Operating current at DC-12 | |
| at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 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 |
| Operating 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 | 1 A |
| • 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 three-phase AC motor | |
| • at 480 V rated value | 361 A |
| • at 600 V rated value | 382 A |
| Yielded mechanical performance [hp] | |
| for three-phase AC motor | |
| — at 200/208 V rated value | 125 hp |
| — at 220/230 V rated value | 150 hp |
| — at 460/480 V rated value | 300 hp |
| — at 575/600 V rated value | 400 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 | |

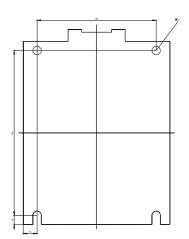
| for short-circuit protection of the main circuit | |
|---|--|
| - with type of coordination 1 required | gG: 800 A (690 V, 100 kA) |
| — with type of assignment 2 required | gG: 800 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 800 A (415 V, 50 kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |

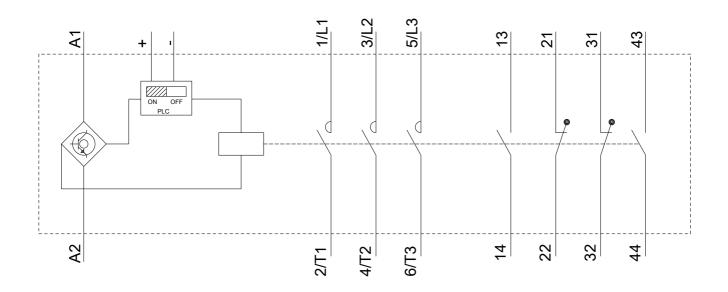
| Installation/ mounting/ dimensions | | | |
|---|---|--|--|
| Mounting position | +/-22,5° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface | | |
| | | | |
| | | | |
| Mounting type | screw fixing | | |
| Side-by-side mounting | Yes | | |
| Height | 210 mm | | |
| Width | 145 mm | | |
| Depth | 206 mm | | |
| Required spacing | | | |
| with side-by-side mounting | | | |
| — forwards | 20 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | 0 mm | | |
| for grounded parts | | | |
| — forwards | 20 mm | | |
| — upwards | 10 mm | | |
| — at the side | 10 mm | | |
| — downwards | 10 mm | | |
| • for live parts | | | |
| — forwards | 20 mm | | |
| — upwards | 10 mm | | |
| — downwards | 10 mm | | |
| — at the side | 10 mm | | |
| Connections/Terminals | | | |
| Type of electrical connection | | | |
| for main current circuit | Connection bar | | |
| for auxiliary and control current circuit | screw-type terminals | | |
| Type of connectable conductor cross-sections | | | |
| at AWG conductors for main contacts | 2/0 500 kcmil | | |
| Connectable conductor cross-section for main contacts | | | |
| • stranded | 70 240 mm² | | |
| Connectable conductor cross-section for auxiliary | | | |
| contacts | | | |
| single or multi-stranded | 0.5 4 mm² | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | |
| Type of connectable conductor cross-sections | | | |
| for auxiliary contacts | | | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) | | |
| — single or multi-stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²) | | |

| finely stranded with core end p | - | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | |
|---|--|--|---|------------------------------|
| at AWG conductors for auxiliary cor | | 2x (20 16), 2x (18 14 | 4), 1x 12 | |
| AWG number as coded connectable cond section | ductor cross | | | |
| • for auxiliary contacts | | 18 14 | | |
| Safety related data | | | | |
| Product function | | | | |
| Mirror contact acc. to IEC 60947-4-1 | | Yes | | |
| positively driven operation acc. to II 1 | EC 60947-5- | No | | |
| | | finger-safe when touched | l vertically from front | acc. to IEC 60529 |
| Certificates/approvals | | | | |
| General Product Approval | | | Functional Safety/Safety of Machinery | Declaration of Conformity |
| CCC CSA | | EHC | Type Examination Certificate | EG-Konf. |
| Test Certificates | Marine / S | hipping | other | |
| Special Test Certi- Type Test Certific- ficate ates/Test Report | ABS | RMRS | <u>Miscellaneous</u> | <u>Confirmation</u> |
| | | | | |
| Further information | | | | |
| Information- and Downloadcenter (Catalo | | ,) | | |
| Information- and Downloadcenter (Catalo http://www.siemens.com/industrial-controls/cat Industry Mall (Online ordering system) | talogs | | | |
| Information- and Downloadcenter (Catalo http://www.siemens.com/industrial-controls/cat Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/C Cax online generator | talogs Catalog/product? | mlfb=3RT1275-6NB36 | -6NB36 | |
| Information- and Downloadcenter (Catalo http://www.siemens.com/industrial-controls/cat Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/C | talogs Catalog/product? AXorder/default. Characteristics | mlfb=3RT1275-6NB36 aspx?lang=en&mlfb=3RT1275 s, FAQs,) | -6NB36 | |
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| Information- and Downloadcenter (Catalo http://www.siemens.com/industrial-controls/cat Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/C Cax online generator http://support.automation.siemens.com/WW/C Service&Support (Manuals, Certificates, o https://support.industry.siemens.com/cs/ww/er Image database (product images, 2D dim | AXorder/default. Characteristics h/ps/3RT1275-61 hension drawin x_de.aspx?mlfb= t, Let-through of | mlfb=3RT1275-6NB36 aspx?lang=en&mlfb=3RT1275 s, FAQs,) NB36 gs, 3D models, device circu =3RT1275-6NB36⟨=en current | | macros,) |









last modified:

12/22/2018