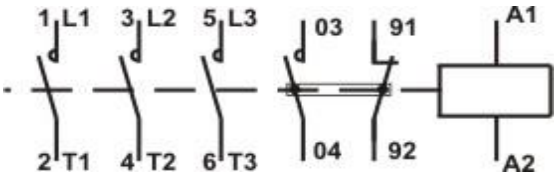
| EPM Elektropřístroj | Technical data sheet | Contactors | Date: 10. 1. 2024 |
|---|---|---|---|
|  | AC controlled contactor | Designation / Marking: | |
| | **C65.11 with AC coil** | **C65.11 _ _ V / _ _ Hz**<br>_ _ / _ _ = nominal control voltage / nominal frequency | |

| | | | |
|---|---|---|---|
| **Rating** | | | |
| Rated insulation voltage | $U_i$ | 1000 | [V] |
| Impulse withstand voltage | $U_{imp}$ | 8 | [kV] |
| Overvoltage category according to ČSN EN 60947-1 | | III | [-] |
| Working environment - degree of pollution | | 3 | [-] |
| Ambient temperature range | | -50 .. +75 | [°C] |
| Storage temperature | | -55 .. +75 | [°C] |
| Operating altitude | | 2000 | [m] |
| Environmental conditions | | any acc. to EN 60721-2-1 | |
| Flammability of materials according to EN 60695-11-10 or UL94 | | V-0 | [-] |
| Vibration and shock resistance according to ČSN EN 61373 ed. 2 | | category 1, class A | |
| Level of safety and reliability according to EN 13849-1 | | B10d = 2 000 000 cycles | |
| Main dimensions W x H x D | | 70 × 107 × 116 | [mm] |
| Mass | | 0.9 | [kg] |
| Mass including unit packing | | 0.98 | [kg] |
| Degree of protection acc. to VDE 0106, part 100 | | IP20/IP10 | |
| **Main poles** | | | |
| Number and type of contacts | | 3 NO | [-] |
| Conventional free air thermal current - (with conductor cross-section 25 mm[2)] | $I_{th}$ | 115 | [A] |
| Rated operational current $I_e$ | | | |
| in AC-1 at 400 V | $I_e$ | 90 | [A] |
| in AC-3 at 400 V | $I_e$ | 65 | |
| in AC-4 at 400 V | $I_e$ | 18 | |
| in DC-1 at 220 V DC (all three poles connected in series) | $I_e$ | 85 | |
| in DC-3 at 220 V DC (all three poles connected in series) | $I_e$ | 44 | |
| in DC-5 at 220 V DC (all three poles connected in series) | $I_e$ | 32 | |
| Max. output power of controlled motor in AC-3 (AC-4) | | | |
| at 220-230 V | | 18,5 | [kW] |
| at 380-400 V | | 30 (9) | |
| at 500 V | | 37 (11) | |
| at 660-690 V | | 37 | |
| Max. output power of controlled motor in AC-4: | | | |
| at 380-400 V | | 9,0 | [kW] |
| at 500 V | | 11 | [kW] |
| Max. on-load switching rate: | | | |
| in AC-1 | | 300 | [op. cycles/hour] |
| in AC-3 | | 1200 | [op. cycles/hour] |
| in AC-4 | | 600 | [op. cycles/hour] |
| Short time withstand currents from the cold state at the max. ambient temp. 40°C: | | | |
| 1 sec | Min. conductor cross section 25 mm$^2$ | 770 | [A] |
| 5 sec | | 620 | |
| 10 sec | | 520 | |
| 30 sec | | 330 | |
| 1 min | | 240 | |
| 3 min | | 140 | |
| 10 min | | 105 | |
| Recommended fuse char. aM | | 80 | [A] |
| Type of coordination according to IEC 60947-4-1 | | 1 | |
| Mechanical durability | | 10x10$^6$ | [op. cycles] |
| Electrical durability in AC-1 at 400 V for rated op. current | | 0,5×10$^6$ | [op. cycles] |
| Electrical durability in AC-3 at 400 V for rated op. current | | 10$^6$ | [op. cycles] |
| Voltage drop on each main pole | $\Delta U$ | 45 | [mV] |
| at the load current | I | 80 | [A] |
| Thermal dissipation on each main pole at the load current | P | 3,8 | [W] |
| Operating times from coil energization to | | | |
| closing of the N.O. contact | | 15 | [ms] |
| opening of the N.C. contact | | N/A | [ms] |
| Operating times from coil deenergization to | | | |
| opening of the N.O. contact | | 11 | [ms] |
| closing of the N.C. contact | | N/A | [ms] |
| Positively guided contacts acc. to IEC 60947-4-1/A1 ed. 2 - Annex F (auxiliary contacts linked with power contacts - mirror contact). | | | - YES - |
| Terminal type | | pillar terminal | |
| Screw type / Screw size | | combined PH2 + simple slots / M6 | |
| Tightening torque | | 3 | [Nm] |
| Max. conductor cross-section: | | | |
| Rigid | | 2,5 .. 25 | [mm$^2$] |
| Flexible | | 2,5 .. 25 | [mm$^2$] |

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|---|---|---|---|
|  | **AC controlled contactor** | **Designation / Marking:** | |
| | **C65.11 with AC coil** | **C65.11 _ _ V / _ _ Hz**<br>_ _ / _ _ = nominal control voltage / nominal frequency | |

| | | | |
|---|---|---|---|
| **Auxiliary contact** | | | |
| Number of contacts | | 1 x NO + 1 x NC | |
| Rated insulation voltage | $U_i$ | 690 | [V] |
| Impulse withstand voltage | $U_{imp}$ | 8 | [kV] |
| Conventional free air thermal current | $I_{th}$ | 12 | [A] |
| Rated operational current in AC-15: | | | |
| at 220-230 V | $I_e$ | 4 | [A] |
| at 380-400 V | $I_e$ | 2 | [A] |
| Electrical durability in AC-15: | | | |
| at 220-230 V, 4 A | | 0,8 ×106 | [op. cycles] |
| at 380-400 V, 2 A | | $1 \times 10^6$ | [op. cycles] |
| Dissipation on aux. pole (ea) | ΔU | 20 | [mV] |
| | I | 4 | [A] |
| | P | 0.08 | [W] |
| Operating times from coil energization to | | | |
| closing of the N.O. contact | | 14 | [ms] |
| opening of the N.C. contact | | 8 | [ms] |
| Operating times from coil deenergization to | | | |
| opening of the N.O. contact | | 15 | [ms] |
| closing of the N.C. contact | | 10 | [ms] |
| Non overlapp. time of the cont. betw. N.O. and N.C. | | 2-6 | [ms] |
| Positively guided contacts according to IEC 60947-5-1/A2 ed. 2 - Annex L (mechanically linked contacts). | | | - YES - |
| Terminal type | | screw-type terminal | |
| Screw type | | combined PH2 + simple slots | |
| Screw size | | M3,5 | |
| Tightening torque | | 0,8 | [Nm] |
| Max. conductor cross-section: | | | |
| Rigid | | 1 .. 2,5 | [$mm^2$] |
| Flexible | | 0,75 .. 1,5 | [$mm^2$] |
| **Control circuit** | | | |
| Control voltage | | AC | [V] |
| Tolerance of rated control voltage | | -15 .. +10 | [%] |
| Drop-out voltage | | >25% Uc | |
| Pull-in input power of AC control coil ±10% | | 140 | [VA] |
| Hold-in input power of AC control coil ±10% | | 23 / 5,7 | [VA/W] |
| Terminal type | | screw-type terminal | |
| Screw size | | M3,5 | |
| Tightening torque | | 0,8 | [Nm] |
| Max. conductor cross-section: | | | |
| Rigid | | 1 .. 2,5 | [$mm^2$] |
| Flexible | | 0,75 .. 1,5 | [$mm^2$] |

**Marking of terminals**




All terminals facilitate connecting of either single conductor up to the maximum cross-section, or two conductors of the same or by one degree different cross-sections except for the maximum one. Flexible conductors must not be compacted by brazing.

| | | |
|---|---|---|
| **Ecological sustainability** | | |
| REACH Regulation | | REACh Declaration |
| REACH free of SVHC | | Yes |
| EU RoHS Directive | | Compliant |
| Mercury free | | Yes |
| OEEZ - certificate of involvement in the system | | AK-6-019136 |