



| Product designation | | | Power contactor |
|--|--------------------|----------|-----------------|
| Product type designation | | | B145 |
| Contact characteristics | | | |
| Number of poles | | Nr. | 3 |
| Rated insulation voltage Ui IEC/EN | | V | 1000 |
| Rated impulse withstand voltage Uimp | | kV | 8 |
| Operational frequency | | | |
| | min | Hz | 25 |
| | max | Hz | 400 |
| IEC Conventional free air thermal current Ith | | A | 250 |
| Operational current le | | | |
| | AC-1 (≤40°C) | A | 250 |
| | AC-1 (≤55°C) | A | 235 |
| | AC-1 (≤70°C) | A | 190 |
| | AC-3 (≤440V ≤55°C) | A | 150 |
| Rated operational power AC-3 (T≤55°C) | AC-4 (400V) | A | 57 |
| Raled operational power AC-3 (1555 C) | 230V | | 46 |
| | 230V 400V | kW kW | 46 80 |
| | 400V 415V | kW | 88 |
| | 413V 440V | kW | 93 |
| | 440V 500V | kW | 100 |
| | 690V | kW | 120 |
| | 1000V | kW | 75 |
| Rated operational power AC-1 (T≤40°C) | 10001 | | 10 |
| | 230V | kW | 91 |
| | 400V | kW | 150 |
| | 500V | kW | 196 |
| | 690V | kW | 270 |
| IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series | | | |
| | 75V | А | 220 |
| | 110V | А | 110 |
| | 220V | А | _ |
| | 330V | А | _ |
| | 460V | А | - |
| IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series | | | |
| | 75V | А | 220 |
| | 110V | А | 150 |
| | 220V | А | 130 |
| | 330V | А | - |
| | 460V | Α | _ |
| IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series | | | |
| | 75V | А | 220 |
| | 110V | А | 150 |
| | 220V | А | 150 |

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC

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| | 330V | А | 130 |
|--|----------|----------|------|
| | 460V | Α | _ |
| EC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series | | | |
| | 75V | А | 220 |
| | 110V | А | 150 |
| | 220V | А | 150 |
| | 330V | A | 150 |
| | 460V | A | 130 |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series | | | |
| | 75V | A | 160 |
| | 110V | A | 80 |
| | 220V | A | - |
| | 330V | A | _ |
| | 460V | A | _ |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series | | | |
| | 75V | A | 160 |
| | 110V | A | 120 |
| | 220V | A | 90 |
| | 330V | A | _ |
| | 460V | A | _ |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series | | | |
| | 75V | A | 160 |
| | 110V | A | 140 |
| | 220V | A | 120 |
| | 330V | A | 90 |
| | 460V | A | _ |
| EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series | | | 100 |
| | 75V | A | 160 |
| | 110V | A | 140 |
| | 220V | A | 140 |
| | 330V | A | 140 |
| | 460V | <u>A</u> | 90 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | Α | 1300 |
| Protection fuse | | | |
| | gG (IEC) | A | 250 |
| | aM (IEC) | A | 160 |
| Making capacity (RMS value) | | Α | 1500 |
| Breaking capacity at voltage | | | 4500 |
| | 440V | A | 1500 |
| | 500V | A | 1400 |
| | 690V | A | 1200 |
| Resistance per pole (average value) | | mΩ | 0.3 |
| Power dissipation per pole (average value) | | | |
| | Ith | W | 14.5 |
| | AC-3 | W | 6.8 |
| Fightening torque for terminals | | | 4.0 |
| | min | Nm | 18 |
| | max | Nm | 18 |
| | min | lbin | 13.3 |
| | max | lbin | 13.3 |
| Fightening torque for coil terminal | | | |
| | min | Nm | 1 |
| | max | Nm | 1 |
| | | | |

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11B14500110 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC

| | | min | lbin Ibin | 0.74 0.74 |
|---|--|---|---|--|
| Max number of wires | simultaneously connectable | max | Nr. | 2 |
| Conductor section | | | | |
| | AWG/Kcmil | | | |
| | | max | | 4/0 |
| | ection according to IEC/EN 60529 | | | IP00 |
| Mechanical features | | | | |
| Operating position | | | | |
| | | normal | | Vertical plan |
| - | | allowable | | ±30° |
| Fixing | | | ~ | Screw |
| Weight | | | g | 5420 |
| Conductor section | AWG/kcmil conductor section | | | |
| | AVVG/KCHIII CONDUCTOR SECTION | may | | 4/0 |
| Operations | | max | | - +/U |
| Mechanical life | | | cycles | 10000000 |
| Electrical life | | | cycles | 1100000 |
| Safety related data | | | ., | |
| | 10d according to EN/ISO 13489-1 | | | |
| | - | rated load | cycles | 1100000 |
| | | mechanical load | cycles | 10000000 |
| | | | | |
| Mirror contats accord | ding to IEC/EN 609474-4-1 | | | yes |
| EMC compatibility | ding to IEC/EN 609474-4-1 | | | yes yes |
| EMC compatibility AC coil operating | | | | - |
| EMC compatibility | | | | yes |
| EMC compatibility AC coil operating | | min | V | yes 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz | min max | V V | yes |
| EMC compatibility AC coil operating | 50/60Hz, 60Hz | | | yes 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz | | | yes 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz | max | V | yes 110 125 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz | max min | V %Us | yes 110 125 80 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up | max | V | yes 110 125 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz | max min max | V %Us %Us | yes 110 125 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up | max min max min | V %Us %Us %Us | yes 110 125 80 110 20 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out | max min max | V %Us %Us | yes 110 125 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up | max min max min | V %Us %Us %Us | yes 110 125 80 110 20 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min max min | V %Us %Us %Us | yes 110 125 80 110 20 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min max min max | V %Us %Us %Us %Us | yes 110 125 80 110 20 60 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min max min max min | V %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up | max min max min max min | V %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 20 20 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max | V %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out | max min max min max min max min | V %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 20 20 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max min max | V %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out | max min max min max min max min max min max | V %Us %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up | max min max min max min max min max | V %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out | max min max min max min max min max | V %Us %Us %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 60 80 110 80 110 |
| EMC compatibility AC coil operating Rated AC voltage at | 50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up | max min max min max min max min max min max | V %Us %Us %Us %Us %Us %Us %Us | yes 110 125 80 110 20 60 80 110 20 60 80 110 20 60 80 80 110 80 80 110 80 80 110 80 80 80 80 80 80 80 80 80 8 |

of 50/60Hz coil powered at 50Hz

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC

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VA 300 in-rush holding VA 10 of 50/60Hz coil powered at 60Hz in-rush VA 300 holding VA 10 Dissipation at holding ≤20°C 50Hz W 10 DC coil operating DC rated control voltage V 110 min 125 max V DC operating voltage pick-up %Us 80 min %Us 110 max drop-out 20 %Us min %Us 60 max Average coil consumption ≤20°C in-rush W 300 holding W 10 Max cycles frequency cycles/h 2400 Mechanical operation Operating times Average time for Us control in AC **Closing NO** min ms 60 100 max ms **Opening NO** 25 min ms 60 max ms in DC **Closing NO** 60 min ms 100 max ms **Opening NO** 25 min ms max ms 60 UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 124 at 600V А 125 Yielded mechanical performance for three-phase AC motor

200/208V HP 50 220/230V HP 50 HP 575/600V 125 General USE Contactor 250 AC current А Short-circuit protection fuse, 600V Standard fault Short circuit current kΑ 5 Fuse rating А 500

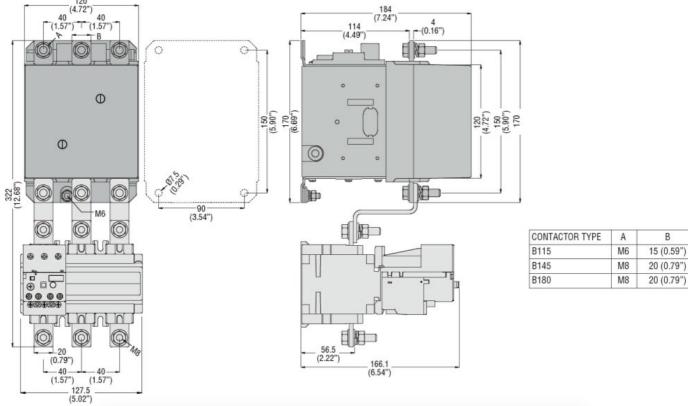
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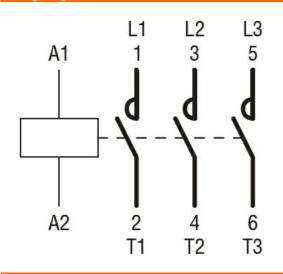
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC

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| | | Fuse class | | RK5 |
|----------------------|-----------------------|------------|----|------|
| Ambient conditions | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | · - · | min | °C | -50 |
| | | max | °C | 70 |
| | Storage temperature | | | |
| | | min | °C | -60 |
| | | max | °C | 80 |
| Max altitude | | | m | 3000 |
| Resistance & Protect | tion | | | |
| Pollution degree | | | | 3 |
| Dimensions | | | | |
| 120 | | | | |



Wiring diagrams



Certifications and compliance

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Compliance

| | CSA C22.2 n° 60947-1 | |
|---------------------|------------------------|------------------|
| | CSA C22.2 n° 60947-4-1 | |
| | IEC/EN 60947-1 | |
| | IEC/EN 60947-4-1 | |
| | UL 60947-1 | |
| | UL 60947-4-1 | |
| Certificates | | |
| | CCC | |
| | cULus | |
| | EAC | |
| ETIM classification | | |
| | | EC000066 - |
| ETIM 8.0 | | Power contactor, |

Power contactor, AC switching

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