# Product data sheet

Specifications



## IEC contactor,Easy TeSys DPE,nonreversing,9A,3P,3HP at 480V AC,24V 50/60Hz coil

DPE09B7

## Main

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|---|---|
| **Range** | Easy TeSys |
| **Product name** | Easy TeSys DPE |
| **Product or component type** | Contactor |
| **Device short name** | DPE |
| **contactor application** | Resistive load<br>Motor control |
| **Utilisation category** | AC-4<br>AC-1<br>AC-3 |
| **poles description** | 3P |
| **Pole contact composition** | 3 NO |
| **Auxiliary contact composition** | 1 NO |
| **[Ie] rated operational current** | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>20 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| **[Uc] control circuit voltage** | 24 V AC 50/60 Hz |
| **Motor power kW** | 2.2 kW 220...230 V AC 50/60 Hz<br>4 kW 380...400 V AC 50/60 Hz<br>4 kW 415 V AC 50/60 Hz<br>4 kW 440 V AC 50/60 Hz<br>5.5 kW 500 V AC 50/60 Hz<br>5.5 kW 660...690 V AC 50/60 Hz |
| **Motor power hp** | 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors<br>1 hp at 230/240 V AC 50/60 Hz for 1 phase motors<br>2 hp at 200/208 V AC 50/60 Hz for 3 phases motors<br>2 hp at 230/240 V AC 50/60 Hz for 3 phases motors<br>3 hp at 460/480 V AC 50/60 Hz for 3 phases motors<br>7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors |

## Complementary

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|---|---|
| **Maximum Operational Voltage** | Power circuit <= 690 V AC 25...400 Hz<br>Power circuit <= 300 V DC |
| **[Ith] conventional free air thermal current** | 10 A (at 140 °F (60 °C)) for signalling circuit<br>25 A (at 140 °F (60 °C)) for power circuit |
| **Irms rated making capacity** | 250 A at 440 V for power circuit conforming to IEC 60947<br>140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1 |
| **Rated breaking capacity** | 250 A at 440 V for power circuit conforming to IEC 60947 |
| **Associated fuse rating** | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>25 A gG at <= 690 V coordination type 1 for power circuit<br>20 A gG at <= 690 V coordination type 2 for power circuit |
| **Average impedance** | 2.5 mOhm - Ith 25 A 50 Hz for power circuit |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|---|---|
| **Power dissipation per pole** | 1.56 W AC-1<br>0.2 W AC-3 |
| **Electrical durability** | 0.6 Mcycles 20 A AC-1 <= 440 V<br>1 Mcycles 9 A AC-3 <= 440 V |
| **Safety reliability level** | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Control circuit type** | AC 50/60 Hz |
| **Coil technology** | Without built-in suppressor module |
| **Control circuit voltage limits** | Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <158 °F (70 °C))<br>Operational: 0.8...1.1 Uc at 50 Hz (at <140 °F (60 °C))<br>Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C))<br>Operational: 1...1.1 Uc at 50/60 Hz (at <158 °F (70 °C)) |
| **Inrush power in VA** | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))<br>70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| **Hold-in power consumption in VA** | 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))<br>7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| **Heat dissipation** | 2…3 W 50/60 Hz |
| **Operating time** | 12...22 ms closing<br>4...19 ms opening |
| **Mechanical durability** | 10 Mcycles |
| **Maximum operating rate** | 3600 cyc/h 140 °F (60 °C) |
| **Auxiliary contacts type** | Mechanically linked 1 NO IEC 60947-5-1 |
| **Minimum switching current** | 5 mA for signalling circuit |
| **Minimum switching voltage** | 17 V for signalling circuit |
| **Insulation resistance** | > 10 MOhm for signalling circuit |
| **Non-overlap time** | 1.5 ms on de-energisation between NC and NO contact<br>1.5 ms on energisation between NC and NO contact |
| **Signalling circuit frequency** | 25...400 Hz |
| **Connections - terminals** | Power circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²) - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 0.002…0.006 in² (1…4 mm²) - cable stiffness: solid without cable end |
| **Tightening torque** | Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 |
| **mounting support** | Rail<br>Plate |
| **Height** | 3.03 in (77 mm) |

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|---|---|
| **Width** | 1.8 in (45 mm) |
| **Depth** | 3.4 in (86 mm) |
| **Net weight** | 0.71 lb(US) (0.32 kg) |

## Environment

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|---|---|
| **[Ui] rated insulation voltage** | Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL |
| **Overvoltage category** | III |
| **Pollution degree** | 3 |
| **[Uimp] rated impulse withstand voltage** | 6 kV IEC 60947 |
| **Standards** | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 60947-4-1 |
| **Product certifications** | UL<br>CSA |
| **IP degree of protection** | IP20 front face IEC 60529 |
| **Ambient air temperature for storage** | -76…176 °F (-60…80 °C) |
| **Ambient air temperature for operation** | -40…140 °F (-40…60 °C) |
| **Operating altitude** | 0...2000 m |
| **Fire resistance** | 1562 °F (850 °C) IEC 60695-2-1 |
| **Mechanical robustness** | Vibrations contactor open 2 Gn, 5...300 Hz)<br>Vibrations contactor closed 4 Gn, 5...300 Hz)<br>Shocks contactor open 10 Gn for 11 ms)<br>Shocks contactor closed 15 Gn for 11 ms) |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.299 in (5.840 cm) |
| **Package 1 Width** | 3.701 in (9.400 cm) |
| **Package 1 Length** | 4.701 in (11.940 cm) |
| **Package 1 Weight** | 12.698 oz (360.000 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 30 |
| **Package 2 Height** | 5.906 in (15.000 cm) |
| **Package 2 Width** | 11.811 in (30.000 cm) |
| **Package 2 Length** | 15.748 in (40.000 cm) |
| **Package 2 Weight** | 24.383 lb(US) (11.060 kg) |
| **Unit Type of Package 3** | P06 |
| **Number of Units in Package 3** | 480 |
| **Package 3 Height** | 29.528 in (75.000 cm) |

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|---|---|
| **Package 3 Width** | 31.496 in (80.000 cm) |
| **Package 3 Length** | 23.622 in (60.000 cm) |
| **Package 3 Weight** | 407.767 lb(US) (184.960 kg) |

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Transparency



RoHS/REACh

## Well-being performance

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|---|---|
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |