# Product data sheet
## Characteristics

# DPE40B7
## IEC contactor,Easy TeSys DPE,nonreversing,40A,3P,25HP at 480V AC,24V AC 50/60Hz coil



## Main

| | |
|---|---|
| Range | Easy TeSys |
| Product name | Easy TeSys DPE |
| Product or Component Type | Contactor |
| Device short name | DPE |
| Contactor application | Motor control<br>Resistive load |
| Utilisation category | AC-1<br>AC-3 |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| Auxiliary contact composition | 1 NO |
| [Ie] rated operational current | 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit<br>40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |
| Motor power kW | 11 KW 220...230 V AC 50/60 Hz<br>18.5 KW 380...400 V AC 50/60 Hz<br>22 KW 415...440 V AC 50/60 Hz<br>22 KW 500 V AC 50/60 Hz<br>30 kW 660...690 V AC 50/60 Hz |
| Maximum Horse Power Rating | 3 Hp at 115 V AC 50/60 Hz for 1 phase motors<br>5 Hp at 230/240 V AC 50/60 Hz for 1 phase motors<br>7.5 Hp at 200/208 V AC 50/60 Hz for 3 phase motors<br>7.5 Hp at 230/240 V AC 50/60 Hz for 3 phase motors<br>30 Hp at 460/480 V AC 50/60 Hz for 3 phase motors<br>25 hp at 575/600 V AC 50/60 Hz for 3 phase 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>60 A (at 140 °F (60 °C)) for power circuit |
| Irms rated making capacity | 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<br>800 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 800 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 320 A 104 °F (40 °C) - 10 s for power circuit<br>720 A 104 °F (40 °C) - 1 s for power circuit<br>72 A 104 °F (40 °C) - 10 min for power circuit<br>165 A 104 °F (40 °C) - 1 min for power circuit<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>80 A gG at <= 690 V coordination type 1 for power circuit<br>80 A gG at <= 690 V coordination type 2 for power circuit |
| Average impedance | 1.5 mOhm - Ith 60 A 50 Hz for power circuit |

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|---|---|
| Power dissipation per pole | 2.4 W AC-3<br>5.4 W AC-1 |
| Electrical durability | 0.6 Mcycles 60 A AC-1 <= 440 V<br>1 Mcycles 40 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 | 140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-in power consumption in VA | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat dissipation | 4…5 W 50/60 Hz |
| Operating time | 4...19 ms opening<br>12...26 ms closing |
| Mechanical durability | 5 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 |
| Signalling circuit frequency | 25...400 Hz |
| Connections - terminals | Power circuit: screw connection 1 0.004…0.04 in² (2.5…25 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw connection 2 0.004…0.02 in² (2.5…16 mm²) - cable stiffness: flexible without cable end<br>Power circuit: screw connection 1 0.004…0.04 in² (2.5…25 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw connection 2 0.004…0.02 in² (2.5…10 mm²) - cable stiffness: flexible with cable end<br>Power circuit: screw connection 1 0.004…0.04 in² (2.5…25 mm²) - cable stiffness: solid without cable end<br>Power circuit: screw connection 2 0.004…0.02 in² (2.5…16 mm²) - cable stiffness: solid without 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: 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 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 62.0 lbf.in (7 N.m) screw connectors 0.02…0.04 in² (16…25 mm²) hexagonal 0.2 in (4 mm)<br>Power circuit 44.3 lbf.in (5 N.m) screw connectors 0.004…0.02 in² (2.5…16 mm²) hexagonal 0.2 in (4 mm)<br>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv 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 | 4.8 in (122 mm) |
| Width | 2.2 in (55 mm) |
| Depth | 4.8 in (122 mm) |
| Net Weight | 1.96 lb(US) (0.89 kg) |

## Environment

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|---|---|
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V cUL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V cUL |
| 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 | cULus |
| IP degree of protection | IP20 front face IEC 60529 |
| Climatic withstand | IACS E10<br>IEC 60947-1 Annex Q category D |
| 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...6561.68 ft (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) |

## Ordering and shipping details

| | |
|---|---|
| Category | US10I1222329 |
| Discount Schedule | 0I12 |
| GTIN | 3606482465268 |
| Returnability | Yes |
| Country of origin | ID |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.4 in (11.3 cm) |
| Package 1 Width | 2.05 in (5.2 cm) |
| Package 1 Length | 3.6 in (9.2 cm) |
| Package 1 Weight | 33.2 oz (940 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 5.9 in (15 cm) |
| Package 2 Width | 11.8 in (30 cm) |
| Package 2 Length | 15.7 in (40 cm) |
| Package 2 Weight | 21.8 lb(US) (9.9 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Height | 41.3 in (105 cm) |
| Package 3 Width | 23.6 in (60 cm) |
| Package 3 Length | 31.5 in (80 cm) |
| Package 3 Weight | 369.3 lb(US) (167.5 kg) |

## Offer Sustainability

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| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |