

# DPE25U7

IEC contactor, Easy TeSys

DPE, nonreversing, 25A, 3P, 10HP at 480V

AC, 240V 50/60Hz coil



## Main

|                                |                                                                                                                                                                                                                                                                          |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | Easy TeSys                                                                                                                                                                                                                                                               |
| Product name                   | Easy TeSys DPE                                                                                                                                                                                                                                                           |
| Product or Component Type      | Contacteur                                                                                                                                                                                                                                                               |
| Device short name              | DPE                                                                                                                                                                                                                                                                      |
| Contacteur 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 | 25 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit<br>32 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit                                                                                                                                                               |
| [Uc] control circuit voltage   | 240 V AC 50/60 Hz                                                                                                                                                                                                                                                        |
| Motor power kW                 | 5.5 kW 220...230 V AC 50/60 Hz<br>11 kW 380...400 V AC 50/60 Hz<br>11 kW 415 V AC 50/60 Hz<br>11 kW 440 V AC 50/60 Hz<br>15 kW 500 V AC 50/60 Hz<br>15 kW 660...690 V AC 50/60 Hz                                                                                        |
| Maximum Horse Power Rating     | 1 Hp 115 V at AC 50/60 Hz for 1 phase<br>3 Hp 230/240 V at AC 50/60 Hz for 1 phase<br>5 Hp 200/208 V at AC 50/60 Hz for 3 phase<br>5 Hp 230/240 V at AC 50/60 Hz for 3 phase<br>10 Hp 460/480 V at AC 50/60 Hz for 3 phase<br>15 hp 575/600 V at AC 50/60 Hz for 3 phase |

## Complementary

|                                             |                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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 140 °F (60 °C) signalling circuit<br>32 A 140 °F (60 °C) power circuit                                                              |
| Irms rated making capacity                  | 140 A AC signalling circuit IEC 60947-5-1<br>250 A DC signalling circuit IEC 60947-5-1<br>300 A 440 V power circuit IEC 60947            |
| Rated breaking capacity                     | 300 A 440 V power circuit IEC 60947                                                                                                      |
| Associated fuse rating                      | 10 A gG signalling circuit IEC 60947-5-1<br>50 A gG <= 690 V type 1 power circuit<br>35 A gG <= 690 V type 2 power circuit               |
| Average impedance                           | 2.5 mOhm - Ith 32 A 50 Hz power circuit                                                                                                  |
| Power dissipation per pole                  | 2.5 W AC-1<br>0.8 W AC-3                                                                                                                 |
| Electrical durability                       | 1 Mcycles 25 A AC-3 <= 440 V<br>0.6 Mcycles 32 A AC-1 <= 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 U <sub>c</sub> 50/60 Hz 158 °F (70 °C))<br>Operational 0.8...1.1 U <sub>c</sub> 50 Hz 140 °F (60 °C))<br>Operational 0.85...1.1 U <sub>c</sub> 60 Hz 140 °F (60 °C))<br>Operational 1...1.1 U <sub>c</sub> 50/60 Hz 158 °F (70 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Inrush power in VA              | 70 VA 60 Hz 0.75 68 °F (20 °C))<br>70 VA 50 Hz 0.75 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hold-in power consumption in VA | 7.5 VA 60 Hz 0.3 68 °F (20 °C))<br>7 VA 50 Hz 0.3 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 signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Minimum switching voltage       | 17 V signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Insulation resistance           | > 10 MOhm 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 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) solid without cable end<br>Power circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) solid without cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible without cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end<br>Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) solid without cable end<br>Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Width                           | 1.77 in (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Depth                           | 3.39 in (86 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Net Weight                      | 0.73 lb(US) (0.33 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Environment

|                                        |                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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                                                     |
| 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...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          | 22362-EASY TESYS DPE1 |
| Discount Schedule | I13                   |
| GTIN              | 3606481063236         |
| Returnability     | Yes                   |
| Country of origin | ID                    |

## Packing Units

|                              |                      |
|------------------------------|----------------------|
| Unit Type of Package 1       | PCE                  |
| Number of Units in Package 1 | 1                    |
| Package 1 Height             | 2.20 in (5.588 cm)   |
| Package 1 Width              | 3.70 in (9.398 cm)   |
| Package 1 Length             | 4.60 in (11.684 cm)  |
| Package 1 Weight             | 12.64 oz (358.342 g) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| RECh Regulation            |  <a href="#">RECh Declaration</a>                                                                                                                                      |
| RECh free of SVHC          | Yes                                                                                                                                                                                                                                                       |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a>                                                                                                                         |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                       |
| Mercury free               | Yes                                                                                                                                                                                                                                                       |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                                                                                                |
| RoHS exemption information |  <a href="#">Yes</a>                                                                                                                                                   |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                                                                                         |
| Circularity Profile        |  <a href="#">End Of Life Information</a>                                                                                                                               |