

# Product data sheet

Specifications



## Thermal overload relay, Easy TeSys DPER, 1.6-2.5A, class 10

DPER07

### Main

|                                     |                                                              |
|-------------------------------------|--------------------------------------------------------------|
| Range                               | Easy TeSys                                                   |
| Product Name                        | Easy TeSys DPER                                              |
| Product Or Component Type           | Thermal overload relay                                       |
| Device Short Name                   | DPER                                                         |
| Relay Application                   | Overload protection                                          |
| Product Compatibility               | Contactors DPE09-38                                          |
| Thermal Protection Adjustment Range | 1.6...2.5 A                                                  |
| Thermal Overload Class              | Class 10 IEC 60947-4-1                                       |
| [Ui] Rated Insulation Voltage       | Power circuit 600 V cUL<br>Power circuit 690 V IEC 60947-4-1 |

### Complementary

|                                             |                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Network Type                                | DC<br>AC                                                                                              |
| Network Frequency                           | 0...400 Hz                                                                                            |
| Auxiliary Contact Composition               | 1 NO + 1 NC                                                                                           |
| [Ith] Conventional Free Air Thermal Current | 5 A signalling circuit                                                                                |
| Permissible Current                         | 3 A 120 V AC-15 signalling circuit<br>0.22 A 125 V DC-13 signalling circuit                           |
| Phase Failure Sensitivity                   | Tripping current 130 % of Ir on two phase, the last one at 0                                          |
| Tripping Threshold                          | 1.14 +/- 0.06 Ir IEC 60947-4-1                                                                        |
| Protection Type                             | BS fuse 5 A control circuit<br>GB2 circuit breaker 5 A control circuit<br>GG fuse 5 A control circuit |
| [Ue] Rated Operational Voltage              | 690 V AC 0...400 Hz power circuit IEC 60947-4-1                                                       |
| [Uimp] Rated Impulse Withstand Voltage      | 6 kV                                                                                                  |
| Surge Withstand                             | 6 kV IEC 60801-5                                                                                      |
| Dielectric Strength                         | 1.89 kV 50 Hz IEC 60947-1                                                                             |
| Control Type                                | Red push-button stop<br>Blue push-button reset                                                        |
| Mounting Support                            | Separate, with specific accessories<br>Under contactor                                                |

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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connections - Terminals | Control circuit screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) flexible without cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) flexible with cable end<br>Control circuit screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) solid without cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in² (1.5...6 mm²) flexible without cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) flexible with cable end<br>Power circuit screw clamp terminals 1 0.00...0.01 in² (1...6 mm²) solid without cable end |
| Tightening Torque       | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals<br>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Height                  | 2.60 in (66 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Width                   | 1.77 in (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                   | 2.76 in (70 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Net Weight              | 0.27 lb(US) (0.124 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                       |                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------|
| Ip Degree Of Protection               | IP20 IEC 60529                                                              |
| Protective Treatment                  | TH IEC 60068                                                                |
| Temperature Compensation              | -4...140 °F (-20...60 °C)                                                   |
| Ambient Air Temperature For Operation | -4...140 °F (-20...60 °C) without derating IEC 60947-4-1                    |
| Ambient Air Temperature For Storage   | -76...158 °F (-60...70 °C)                                                  |
| Shock Resistance                      | 15 gn 11 ms IEC 60068-2-7                                                   |
| Vibration Resistance                  | 6 gn on plate IEC 60068-2-6                                                 |
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CUL |
| Product Certifications                | cUL                                                                         |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type Of Package 1       | PCE                    |
| Number Of Units In Package 1 | 1                      |
| Package 1 Height             | 1.93 in (4.9 cm)       |
| Package 1 Width              | 3.03 in (7.7 cm)       |
| Package 1 Length             | 3.46 in (8.8 cm)       |
| Package 1 Weight             | 4.87 oz (138.0 g)      |
| Unit Type Of Package 2       | S02                    |
| Number Of Units In Package 2 | 24                     |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 11.81 in (30.0 cm)     |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 8.05 lb(US) (3.653 kg) |
| Unit Type Of Package 3       | P06                    |
| Number Of Units In Package 3 | 384                    |

|                  |                           |
|------------------|---------------------------|
| Package 3 Height | 30.31 in (77.0 cm)        |
| Package 3 Width  | 23.62 in (60.0 cm)        |
| Package 3 Length | 31.50 in (80.0 cm)        |
| Package 3 Weight | 160.56 lb(US) (72.827 kg) |

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Transparency   RoHS/REACH

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

## Certifications & Standards

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                     |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                             |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                         |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                               |