# Product data sheet

Specifications




## Transformer, dry type, DOE 2016, 150kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 22M, 150C rise

EXN150T3H

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Square D |
| **Product or Component Type** | Transformer |
| **Device short name** | DOE 2016 |
| **Transformer type** | Energy efficient |
| **Device Application** | Low voltage electrical distribution |

## Complementary

| | |
|---|---|
| **Box number** | 22M |
| **Phase** | 3 phase |
| **Rated operational power in VA** | 150 kVA |
| **Network Frequency** | 60 Hz |
| **Type of cooling** | Natural convection |
| **Primary Voltage** | 480 V delta |
| **Number of tap-offs** | 2 2.5 % FCAN<br>4 2.5 % FCBN |
| **Primary operational current** | 180.42 A 416.36 A 150 kVA |
| **Secondary voltage** | 208Y/120 V |
| **Coil Material** | Aluminium |
| **Basic IMP level (BIL)** | 10 kV |
| **Temperature Rise** | 150 °C<br>220 °C insulated |
| **DOE Efficiency** | 98.89 % at 35 % load factor , 167 °F (75.0 °C) |
| **Sound Level** | 44 dB<br>3 dB NEMA ST-20 |
| **%IZ** | 3.10 % |
| **%IX** | 2.48 % |
| **X/R Ratio** | 1.47 |
| **Inrush current** | 2714 A |
| **Let Through Current** | 13.43 kA |
| **Transformer Losses** | 301 no load (core loss)<br>2909 load loss (coil loss) |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **Transformer BTU/HR** | 1303 16.6 %<br>1647 25 %<br>3509 50 %<br>6620 75 %<br>10953 100 % |
| **Height** | 40.6 in (1031 mm) |
| **Depth** | 32.6 in (827 mm) |
| **Width** | 33.7 in (855 mm) |
| **Product Weight** | 933.00 lb(US) (423.20 kg) |
| **Mounting support** | Floor<br>Floor, with 7400FMB<br>Ceiling, with 7400CMB22M |
| **Degree of protection** | UL type 2<br>UL type 3R, with 7400WS22M |
| **Electrical connection** | 4 Hole Nema Pad primary 0.4 in (11.1 mm)<br>4 Hole Nema Pad secondary 0.4 in (11.1 mm)<br>6 Hole Nema Pad sec - XO 0.4 in (11.1 mm) |
| **Number of mounting holes** | 4 Ø: 0.5 in (13 mm) |

## Environment

| | |
|---|---|
| **Ambient Air Temperature for Operation** | 104 °F (40 °C) |
| **Average ambient air temperature for operation** | 30 °C |
| **Standards** | UL 1561<br>CSA C22.2 No 47<br>NEMA ST-20 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1PE2X16256 |
| **Discount Schedule** | PE2X |
| **GTIN** | 785901357940 |
| **Returnability** | Yes |
| **Country of origin** | MX |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 46.500 in (118.110 cm) |
| **Package 1 Width** | 38.000 in (96.520 cm) |
| **Package 1 Length** | 35.000 in (88.900 cm) |
| **Package weight(Lbs)** | 1015.0003 lb(US) (460.396 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **41 961 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **2 828 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **80 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **38 150 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **903 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Declare | **Red list free** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Phenyl Glycidyl Ether, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov** |
| Halogen content performance | **Halogen free plastic parts product** |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

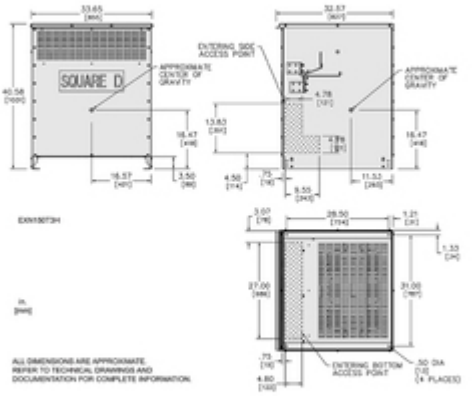
### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **95** |
| Circularity Profile | **No need of specific recycling operations** |
| Take-back | **No** |

| | |
|---|---|
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Technical Illustration

**Dimensions**



Technical Illustration

## Wiring diagram

