# Product data sheet

Specifications

## Transformer, dry type, DOE 2016, 75kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 20M, 150C rise, Cu, K13

EXN75T3HCUNLP

**Product availability: Non-Stock - Not 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** | 20M |
| **Phase** | 3 phase |
| **Rated operational power in VA** | 75 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** | 90.21 A 208.18 A 75 kVA |
| **Secondary voltage** | 208Y/120 V |
| **Coil Material** | Copper |
| **Basic IMP level (BIL)** | 10 kV |
| **Temperature Rise** | 150 °C<br>220 °C insulated |
| **DOE Efficiency** | 98.65 % at 35 % load factor , 167 °F (75.0 °C) |
| **Sound Level** | 47 dB<br>6 dB NEMA ST-20 |
| **%IZ** | 5.56 % |
| **%IX** | 4.82 % |
| **X/R Ratio** | 2.13 |
| **Inrush current** | 739 A |
| **Let Through Current** | 3.74 kA |
| **Transformer Losses** | 142 no load (core loss)<br>2169 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** | 690 16.6 %<br>947 25 %<br>2335 50 %<br>4648 75 %<br>7885 100 % |
| **Height** | 33.5 in (851 mm) |
| **Depth** | 27.4 in (697 mm) |
| **Width** | 30.08 in (764 mm) |
| **Product Weight** | 819.04 lb(US) (371.51 kg) |
| **Mounting support** | Floor<br>Floor, with 7400FMB<br>Ceiling, with 7400CMB18M19M20M<br>Wall, with 7400WMB18M19M20M |
| **Degree of protection** | UL type 2<br>UL type 3R, with 7400WS18M19M20M |
| **Electrical connection** | 4 Hole Nema Pad secondary 0.4 in (11.1 mm)<br>6 Hole Nema Pad sec - XO 0.4 in (11.1 mm)<br>4 Hole Nema Pad primary 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** | US1PE2X16259 |
| **Discount Schedule** | PE2X |
| **GTIN** | 785901419495 |
| **Returnability** | Yes |
| **Country of origin** | MX |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 39.50 in (100.33 cm) |
| **Package 1 Width** | 35.0 in (88.9 cm) |
| **Package 1 Length** | 32.00 in (81.28 cm) |
| **Package weight(Lbs)** | 706.98 lb(US) (320.68 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 | **24 264 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **1 756 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **70 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **18 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **21 527 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **893 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## 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** |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

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

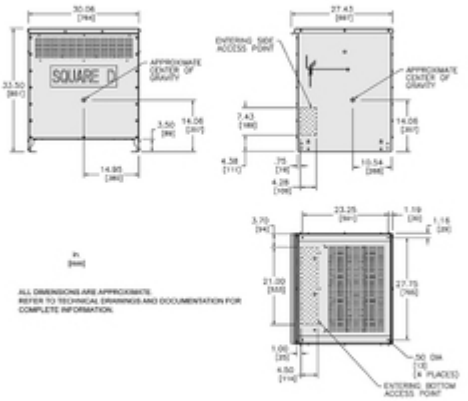
## Use Again

### 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.** |

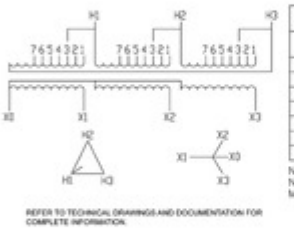
Technical Illustration

**Dimensions**



Technical Illustration

**Wiring diagram**




| IN EACH PHASE CONNECT TO TAPS | |
|---|---|
| PRIMARY VOLTS | 2-2.5% FCAN 4-2.5% FCBN |
| 504 | 1 |
| 492 | 2 |
| 480 | 3 |
| 468 | 4 |
| 456 | 5 |
| 444 | 6 |
| 432 | 7 |

NOTE: ACTUAL VOLTAGES & NAMEPLATE VALUES MAY NOT MATCH VOLTAGE IN TABLE