

# Product data sheet

Specifications

SQUARE D



Transformer, dry type, DOE 2016, 45kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 19M, 150C rise

EXN45T3H

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                    | 19M   |
| Phase                         | 3 phase   |
| Rated operational power in VA | 45 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   | 18.04 A 41.64 A 15 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                | 98.45 % at 35 % load factor , 167 °F (75.0 °C)        |
| Sound Level                   | 3 dB NEMA ST-20<br>39 dB                              |
| %IZ                           | 4.10 %  |
| %IX                           | 2.60 %  |
| X/R Ratio                     | 0.88  |
| Inrush current                | 736 A   |
| Let Through Current           | 3.05 kA   |
| Transformer Losses            | 104 no load (core loss)<br>1446 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.

|                                 |   |
|---------------------------------|---|
| <b>Transformer BTU/HR</b>       | 492 16.6 %<br>663 25 %<br>1588 50 %<br>3130 75 %<br>5289 100 %  |
| <b>Height</b>                   | 29.3 in (745 mm)  |
| <b>Depth</b>                    | 25.9 in (659 mm)  |
| <b>Width</b>                    | 25.5 in (648 mm)  |
| <b>Net Weight</b>               | 369.01 lb(US) (167.38 kg)   |
| <b>Mounting support</b>         | Floor<br>Floor, with 7400FMB<br>Ceiling, with 7400CMB18M19M20M<br>Wall, with 7400WMB18M19M20M                                       |
| <b>Degree of protection</b>     | UL type 2<br>UL type 3R, with 7400WS18M19M20M   |
| <b>Electrical connection</b>    | 2 Hole Nema Pad primary 0.4 in (11.1 mm)<br>2 Hole Nema Pad secondary 0.4 in (11.1 mm)<br>4 Hole Nema Pad sec - XO 0.4 in (11.1 mm) |
| <b>Number of mounting holes</b> | 4 Ø: 0.5 in (13 mm)   |

## Environment

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

## Ordering and shipping details

|                          |              |
|--------------------------|--------------|
| <b>Category</b>          | US1PE2X16256 |
| <b>Discount Schedule</b> | PE2X         |
| <b>GTIN</b>              | 785901272588 |
| <b>Returnability</b>     | Yes          |
| <b>Country of origin</b> | MX           |

## Packing Units

|                               |                             |
|-------------------------------|-----------------------------|
| <b>Unit Type of Package 1</b> | PCE                         |
| <b>Nbr. of units in pkg.</b>  | 1                           |
| <b>Package 1 Height</b>       | 35.00 in (88.900 cm)        |
| <b>Package 1 Width</b>        | 32.10 in (81.534 cm)        |
| <b>Package 1 Length</b>       | 31.00 in (78.740 cm)        |
| <b>Package weight(Lbs)</b>    | 390.999 lb(US) (177.354 kg) |



## 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   |   |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle)  | 16642   |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a> |
|  <a href="#">Declare</a> | Red list free                                 |

### Use Better

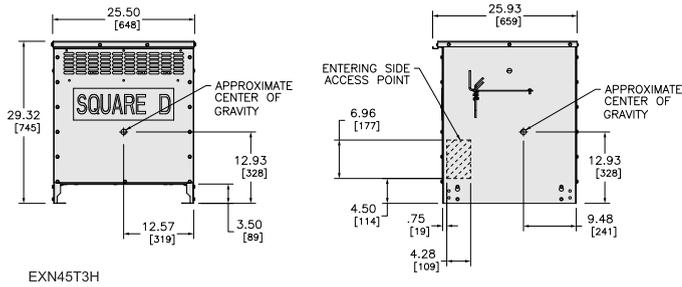
| Materials and Substances               |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| <a href="#">EU RoHS Directive</a>      | Compliant  |
| REACH Regulation                       | <a href="#">REACH Declaration</a>  |
| California proposition 65              | <b>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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></b> |
| Halogen content performance            | Halogen free plastic parts product   |
| PVC free                               | Yes  |

### Use Again

| Repack and remanufacture |  |
|--------------------------|--|
| Circularity Profile      | No need of specific recycling operations |
| Take-back                | No                                       |

Technical Illustration

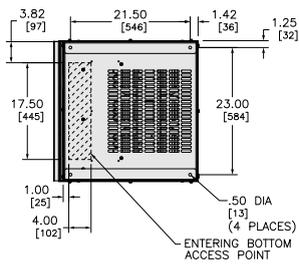
Dimensions



EXN45T3H

in.  
[mm]

ALL DIMENSIONS ARE APPROXIMATE.  
REFER TO TECHNICAL DRAWINGS AND  
DOCUMENTATION FOR COMPLETE INFORMATION.



Technical Illustration

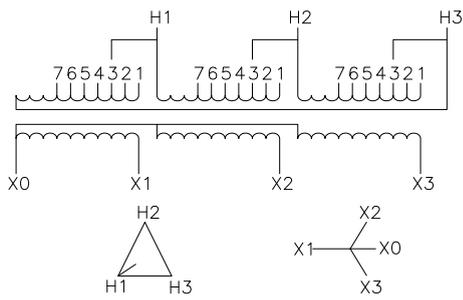
Wiring diagram

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| IN EACH PHASE<br>CONNECT TO TAPS |                            |
|----------------------------------|----------------------------|
| PRIMARY<br>VOLTS                 | 2-2.5% FCAN<br>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

EXN45T3H



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COMPLETE INFORMATION.