Product data sheet

Specifications

Transformer, dry type, DOE 2016, 150kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 22M, 80C rise

EXN150T3HB

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	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 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	80 °C 220 °C insulated
DOE Efficiency	98.92 % at 35 % load factor , 167 °F (75.0 °C)
Sound Level	44 dB 1 dB NEMA ST-20
%IZ	3.92 %
%IX	3.73 %
X/R Ratio	3.13
Inrush current	1909 A
Let Through Current	11.16 kA
Transformer Losses	348 no load (core loss) 1971 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	1374 16.6 % 1608 25 % 2869 50 % 4970 75 % 7913 100 %
Height	40.6 in (1031 mm)
Depth	32.6 in (827 mm)
Width	33.7 in (855 mm)
Product Weight	1208.002 lb(US) (547.94 kg)
Mounting support	Floor Floor, with 7400FMB Ceiling, with 7400CMB22M
Degree of protection	UL type 2 UL type 3R, with 7400WS22M
Electrical connection	6 Hole Nema Pad secondary 0.4 in (11.1 mm) 8 Hole Nema Pad sec - XO 0.4 in (11.1 mm) 2 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 CSA C22.2 No 47 NEMA ST-20

Ordering and shipping details

Category	US1PE2X16256
Discount Schedule	PE2X
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	46.400 in (117.856 cm)
Package 1 Width	38.100 in (96.774 cm)
Package 1 Length	35.0 in (88.9 cm)
Package weight(Lbs)	1446.9 lb(US) (656.3 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	**42 872 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**3 662 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**103 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**37 938 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 169 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**

Use Longer

Lifetime extension

Repair	**No**

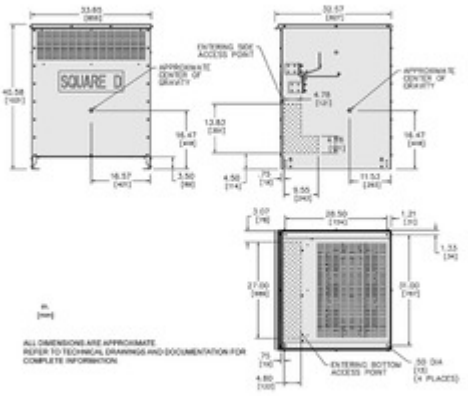
Use Again

Repack and remanufacture

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

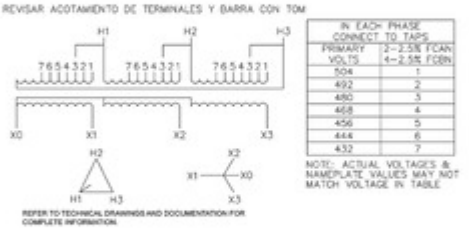
Technical Illustration

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