

Product data sheet

Specifications

SQUARE D



Transformer, dry type, DOE 2016, 45kVA, 3 phase, 480V delta primary, 208Y/120V secondary, 20K, 80C rise

EX45T3HB

! Discontinued

! Discontinued on: Nov 22, 2021

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	20K
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 4 2.5 % FCBN
Secondary voltage	208Y/120 V
Coil Material	Aluminium
Basic IMP level (BIL)	10 kV
Temperature Rise	80 °C 220 °C insulated
DOE Efficiency	98.73 % at 35 % load factor , 167 °F (75.0 °C)
Sound Level	1 dB NEMA ST-20 44 dB
%IZ	2.9 %
%IX	0.0257 %
X/R Ratio	1.78
Let Through Current	4.2 kA
Transformer Losses	128.0 no load (core loss) 650.0 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.

Transformer BTU/HR	497.8704162188 16.6 % 575.37244475 25 % 991.2272509999999 50 % 1684.3185947499999 75 % 2654.646476 100 %
Height	42.008 in (1067 mm)
Depth	22.8 in (578 mm)
Width	30.08 in (764 mm)
Net Weight	620.007 lb(US) (281.23 kg)
Mounting support	Floor Floor, with 7400FMB Wall, with 7400WMB18K20K Ceiling, with 7400CMB20K
Degree of protection	UL type 1 UL type 2, with 7400DS20K UL type 3R, with 7400WS20K
Electrical connection	2 Hole Nema Pad primary 0.4 in (11.1 mm) 2 Hole Nema Pad secondary 0.4 in (11.1 mm) 4 Hole Nema Pad sec - XO 0.4 in (11.1 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	US1PE2X16250
Discount Schedule	PE2X
GTIN	785901720898
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	48.00 in (121.92 cm)
Package 1 Width	26.00 in (66.04 cm)
Package 1 Length	33.00 in (83.82 cm)
Package weight(Lbs)	646.008 lb(US) (293.024 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	16 155 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
 Declare	Red list free
Carbon footprint of the manufacturing phase [A1 to A3]	1 880 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	53 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	13 622 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	600 kg CO2 eq.

Use Better



Materials and Substances

EU RoHS Directive	Compliant
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

Dimensions Drawings

Approximate Dimensions

