

Square D™ EXN Low Voltage Distribution Transformers

7400CT1901

Catalog

03/2020



™

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Product Description

The Square D™ Distribution Transformer is designed to supply power throughout the building. The transformer permits the use of multiple voltages in the design of the system.

Some advantages to designing a system with low voltage transformers:

- Distributes a voltage higher than required by the load to limit wire losses and voltage drop
- Addition of source impedance to the system, reducing common overcurrent at normal voltages
- Mitigates harmonics through an internal magnetic circuit
- Allows system grounding closer to the load, reducing capacitive noise
- Can be designed for any output voltage that is required.

A few disadvantages to designing a system with low voltage distribution transformers:

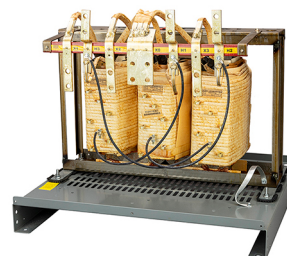
- Reduces overall efficiency of the system due to internal losses within the transformer
- Added heat to the building if installed indoors and in the HVAC system.

The impact on the efficiency of the system and the concerns for improvements in the market for energy consumption have led to low voltage distribution transformers being regulated through the Energy Policy and Conservation Act (United States) and Natural Resources (Canada).

Below are the efficiency ratings of Three-Phase Low Voltage Dry-Type Distribution Transformers:

Three-Phase	
kVA	Efficiency (%)
15	97.89
30	98.23
45	98.40
75	98.60
112.5	98.74
150	98.83
225	98.94
300	99.02
500	99.14
750	99.23
1000	99.28

NOTE: All efficiency values are at 35% of nameplate-rated load, determined according to the U.S. Department of Energy (DOE) Test Method for Measuring the Energy Consumption of Distribution Transformers under Appendix A to Subpart K of 10 CFR part 431.



EXN Energy Efficient Transformer Family

Square D transformers manufactured by Schneider Electric™ are optimized for performance, including the following components:

- **Coil**—Designed to reduce the losses with customized wire configurations used exclusively by Schneider Electric. Computer-controlled winding equipment minimizes variability during the winding process. Aluminum conductors are standard with copper conductors available as a factory option.
- **Insulation System**—The system consists of a conductor wrap or coating, layer insulation, air gap spacing, and varnish material. The system is UL listed for a specific maximum temperature for average temperature rise, hot spot, and ambient temperature. Schneider Electric's EXN family of transformers have a 428°F (220°C) insulation system, with an average temperature rise maximum of 302°F (150°C).
- **Core**—EXN Transformers are designed with high-grade grain oriented, non-aging silicon steel laminations with high magnetic permeability, low hysteresis, and low eddy current losses. The computer-aided process allows the design to keep the magnetic flux densities well below the saturation point. The laminations are carefully and evenly stacked via distributive gap laminations, then clamped together to ensure an efficient magnetic circuit while providing a quiet quality offering of low voltage transformers.
- **Terminals**—Sized to allow the lugs to align with all corresponding Schneider Electric equipment (such as circuit breakers, switches, panelboards, switchboards, etc.). The terminal positioning separates the Primary and Secondary terminals and meets the National Electrical Code® (NEC®) minimum wire bending requirements. **Lugs are not shipped with the transformer.** This allows the installer the flexibility to order what is needed to meet any distribution system requirements. **NOTE:** Both mechanical and compression lug kits are available from Schneider Electric.

Terminals are standardized to National Electrical Manufacturers Association® (NEMA®) two-pole pad dimensions.

Codes and Standards

NEMA ST-20—100% routine testing prior to shipment; other ST-20 testing available at time of order, to be included when shipped.

UL1561 and CSA22.2 No. 47—Third party Certified by UL – File E6868; cULus Labeled

Energy Efficient Registration—Department of Energy 10 CFR 429; Natural Resources Canada – via UL

Manufactured in ISO 9001 Facilities—Product Environmental Profile – RoHS/ REACH

EXN — Enclosure 17M

Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN15T3H	97.96%	Al	150°C	50	592	4.03	1.79	0.53	188
EXN15T3HCU	98.05%	Cu	150°C	48	562	4.06	1.72	0.47	222
EXN15T3HF	98.00%	Al	115°C	50	538	3.98	1.79	0.53	184
EXN15T3HFCU	98.03%	Cu	115°C	48	534	3.90	1.68	0.43	219
EXN15T3HB	98.09%	Al	80°C	52	442	4.01	2.79	1.00	195
EXN15T3HBCU	98.10%	Cu	80°C	51	438	4.53	3.51	1.23	235
15 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN15T65H	97.96%	Al	150°C	50	595	4.32	1.78	0.53	188
EXN15T65HCU	98.16%	Cu	150°C	46	501	3.78	1.85	0.56	234
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 39 dB									
EXN15T1814H	98.00%	Al	150°C	51	561	4.62	2.77	0.89	195
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 39 dB									
EXN15T6H	98.02%	Al	150°C	51	555	4.70	2.97	0.98	193
EXN15T6HCT	98.02%	Al	150°C	51	555	4.70	2.97	0.98	193
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 39 dB									
EXN15T1755H	98.03%	Al	150°C	52	535	4.21	2.31	0.76	192
15 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 39 dB									
EXN15T3184H	97.98%	Al	150°C	59	495	3.86	2.08	0.76	192
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 39 dB									
EXN15T1769H	98.01%	Al	150°C	51	557	4.72	2.97	0.76	193
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
15 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta) Pri Taps: 192/200/208/216/232/240/248, 150°C Rise 220°C Insulation, Sound Level 39 dB									
EXN15T3155H	240	98.02%	Al	55	519	4.01	2.12	0.72	191
	208	97.94%	Al	55	562	4.24	2.12	0.66	191
15 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta) Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T3156H	240	98.04%	Al	54	509	4.04	2.28	0.80	192
	208	97.96%	Al	54	553	4.29	2.30	0.73	192
15 kVA, 480 Delta to 220Y/127 OR 440 Delta to 220Y/127 (shipped as 480 Delta) Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T3166H	440	97.97%	Al	59	503	3.91	2.12	0.76	193
	480	98.02%	Al	58	477	3.78	2.13	0.81	193

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T3HNL	97.97%	Al	K4	50	592	4.30	1.79	0.53	184
EXN15T3HCUNL	98.00%	Cu	K4	48	589	4.22	1.67	0.43	219
EXN15T3HNLP	98.03%	Al	K13	52	540	4.51	2.79	1.00	195
EXN15T3HCUNLP	98.05%	Cu	K13	51	533	4.96	3.51	1.23	235

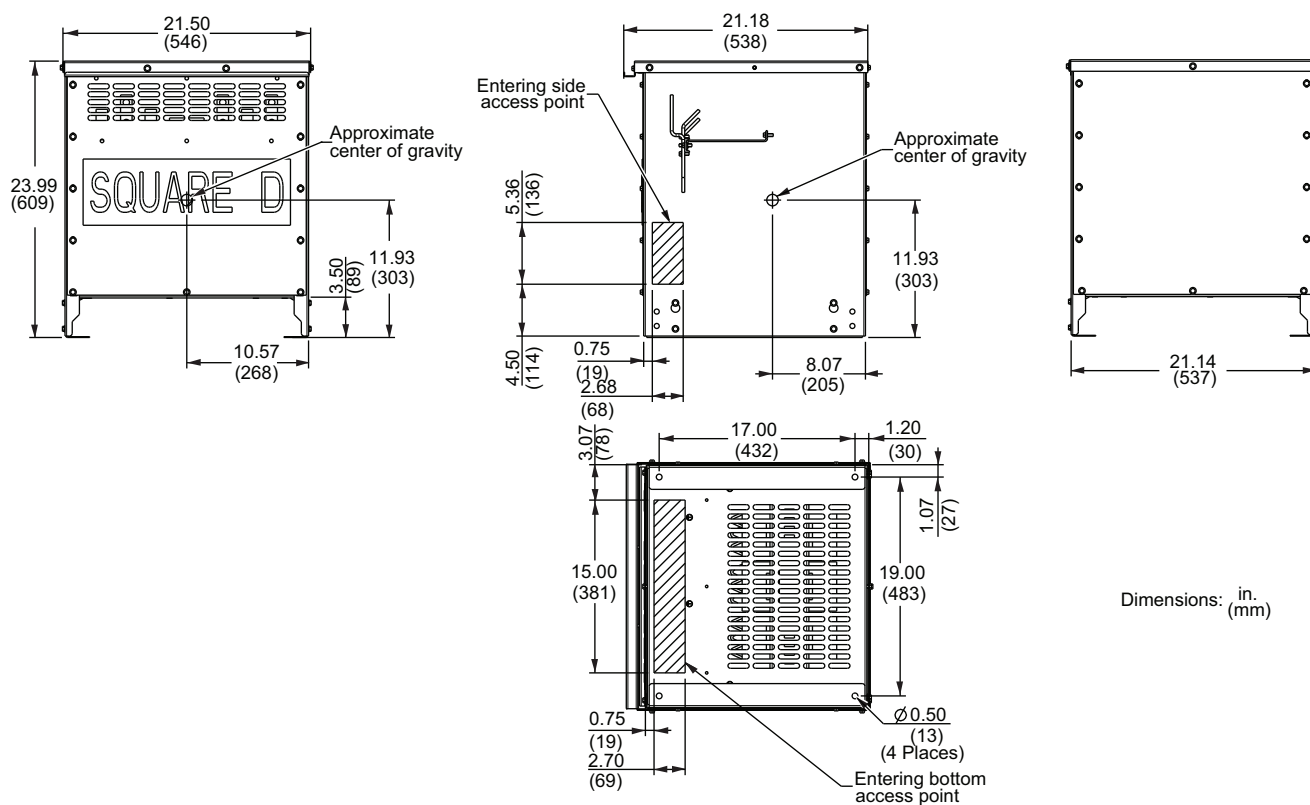
All units above ship in Type 2 enclosure – 17M, minimum rear and side clearance 1/2–inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.



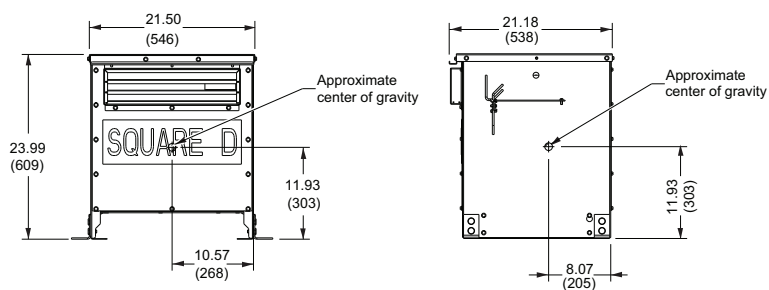
EXN15T3H

17M Dimensions

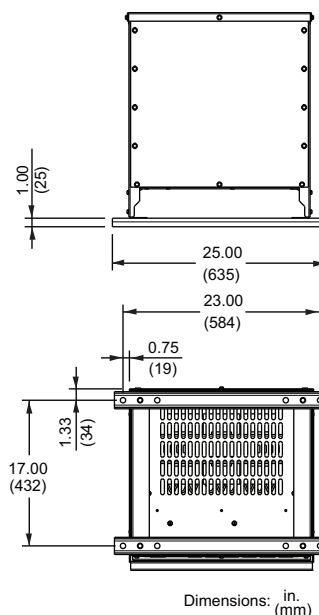


17M Accessories

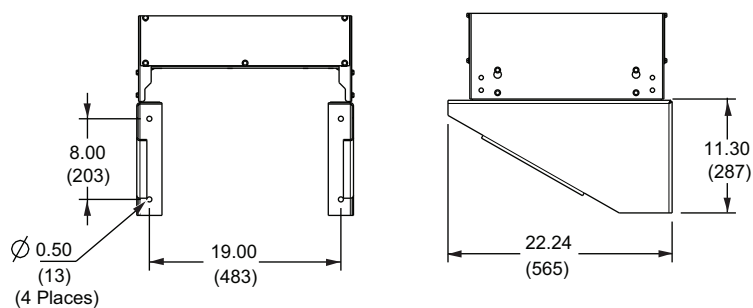
Weathershield — Convert from Type 2 to Type 3R: 7400WS17M



Ceiling Mounting Bracket: 7400CMB17M



Wall Mounting Bracket: 7400WMB17M



EXN — Enclosure 18M

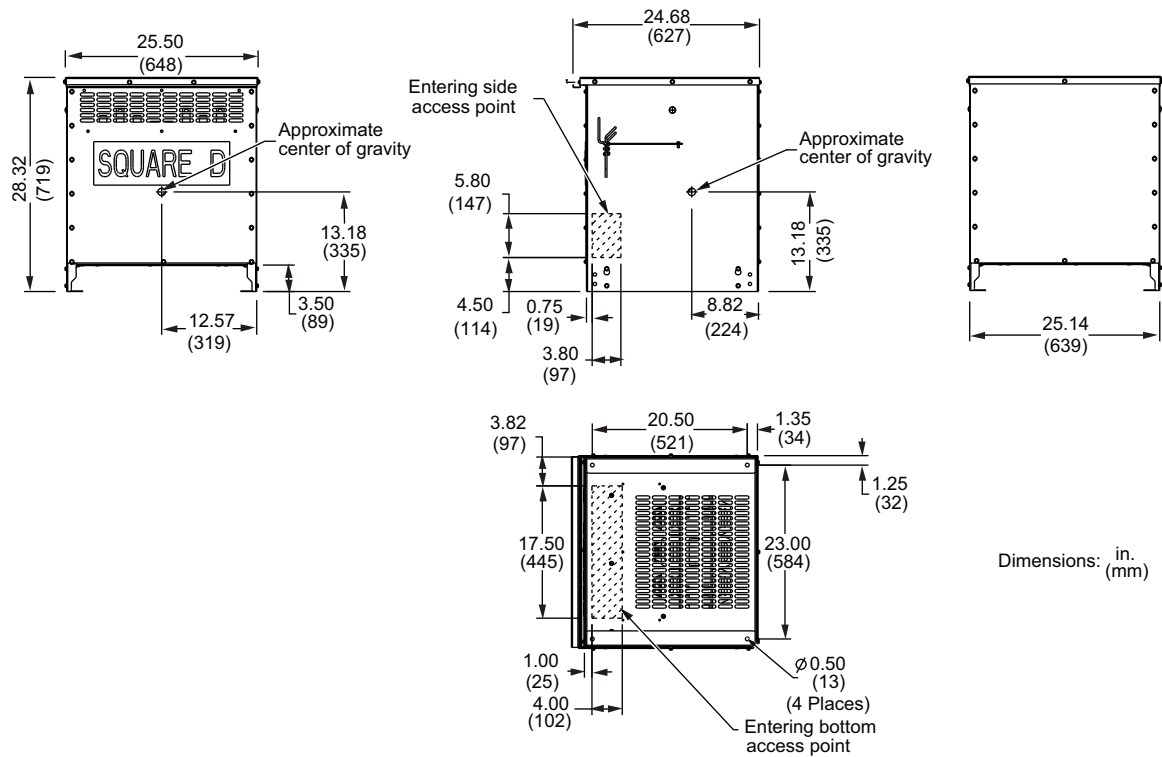
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN30T3H	98.28%	Al	150°C	80	1044	3.80	1.58	0.49	303
EXN30T3HCU	98.38%	Cu	150°C	68	1049	4.08	2.24	0.65	356
EXN30T3HF	98.31%	Al	115°C	97	778	2.92	1.41	0.57	324
EXN30T3HFCU	98.39%	Cu	115°C	68	974	3.98	2.42	0.69	358
EXN30T3HB	98.30%	Al	80°C	86	835	4.37	3.44	1.31	345
EXN30T3HBCU	98.52%	Cu	80°C	90	589	2.76	1.99	1.04	407
30 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN30T65H	98.28%	Al	150°C	83	1013	3.70	1.61	0.53	324
EXN30T65HCU	98.45%	Cu	150°C	68	973	3.88	2.24	0.71	361
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 39 dB									
EXN30T1814H	98.30%	Al	150°C	94	884	3.50	1.96	0.78	333
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 39 dB									
EXN30T6H	98.31%	Al	150°C	110	703	2.99	1.90	1.00	365
EXN30T6HCT	98.31%	Al	150°C	110	703	2.99	1.90	1.00	365
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 39 dB									
EXN30T1755H	98.34%	Al	150°C	86	919	3.78	2.26	0.85	335
30 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 39 dB									
EXN30T3184H	98.30%	Al	150°C	96	850	3.47	2.04	0.84	335
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 39 dB									
EXN30T1769H	98.31%	Al	150°C	110	705	3.00	1.90	1.00	361
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3155H	240	98.33%	Al	95	836	3.43	2.07	0.88	335
	208	98.27%	Al	95	905	3.63	2.09	0.81	335
30 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3156H	240	98.38%	Al	99	747	3.22	2.08	1.02	363
	208	98.23%	Al	99	808	3.37	2.09	0.94	363
30 kVA, 480 Delta to 220Y/127 OR 440 Delta to 220Y/127 (shipped as 480 Delta), Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3166H	440	98.30%	Al	98	839	3.40	1.99	0.84	337
	480	98.34%	Al	98	799	3.30	1.99	0.89	337
Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3HNL	98.29%	Al	K4	97	855	3.15	1.41	0.57	324
EXN30T3HCUNL	98.29%	Cu	K4	68	1069	4.23	2.42	0.69	358

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3HNLP	98.29%	Al	K13	83	999	4.18	2.64	1.03	336
EXN30T3HCUNLP	98.48%	Cu	K13	90	714	3.06	1.99	1.04	407
15 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T65HNLP	97.99%	Al	K13	83	250	1.83	0.80	0.65	325
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
15 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN15T65HB	97.89%	Al	80°C	Contact factory					365
EXN15T65HBCU	97.89%	Cu	80°C	Contact factory					365
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 39 dB									
EXN15T1814HB	97.89%	Al	80°C	Contact factory					365
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, Sound Level 39 dB, [CT – 120CT 7.5% capacity]									
EXN15T6HB	97.89%	Al	80°C	Contact factory					365
EXN15T6HBCT	97.89%	Al	80°C	Contact factory					365
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 39 dB									
EXN15T1755HB	97.89%	Al	80°C	Contact factory					365
15 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 39 dB									
EXN15T3184HB	97.89%	Al	80°C	Contact factory					365
15 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 39 dB									
EXN15T1769HB	97.89%	Al	80°C	Contact factory					365
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
15 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277, (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T3155HB	240	97.89%	Al	Contact factory					365
	208	97.89%	Al						365
15 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta) Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN15T3156HB	240	97.89%	Al	Contact factory					365
	208	97.89%	Al						365

All units above ship in Type 2 enclosure – 18M, minimum rear and side clearance 1/2-inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

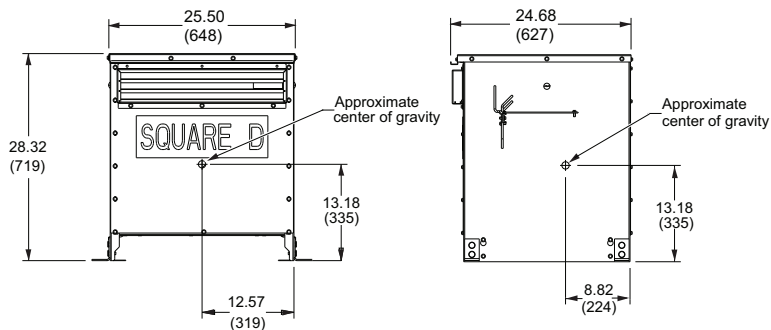
To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.

18M Dimensions

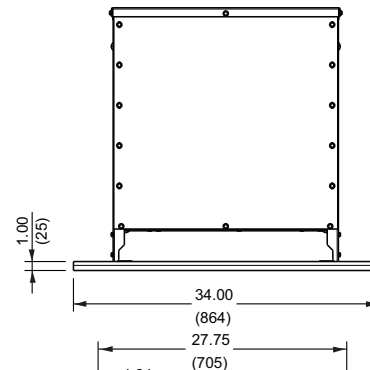


18M Accessories

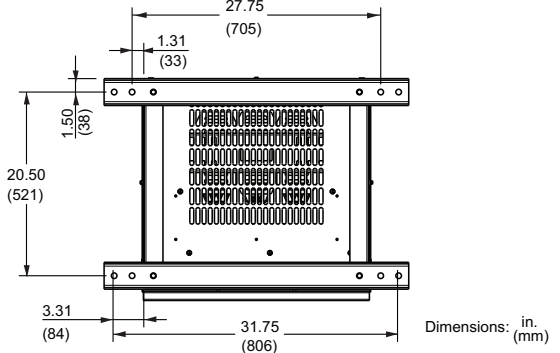
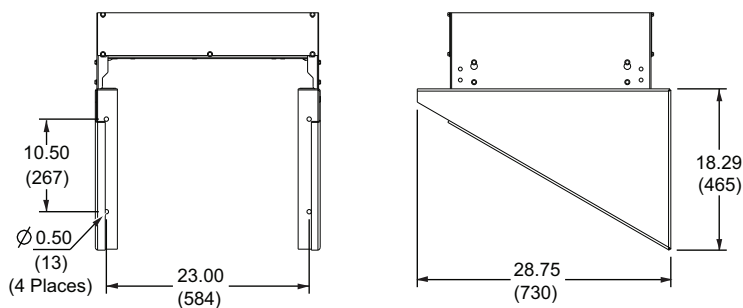
Weathershield — Convert from Type 2 to Type 3R: 7400WS18M19M



Ceiling Mounting Bracket: 7400CMB18M19M20M



Wall Mounting Bracket: 7400WMB18M19M20M



EXN — Enclosure 19M

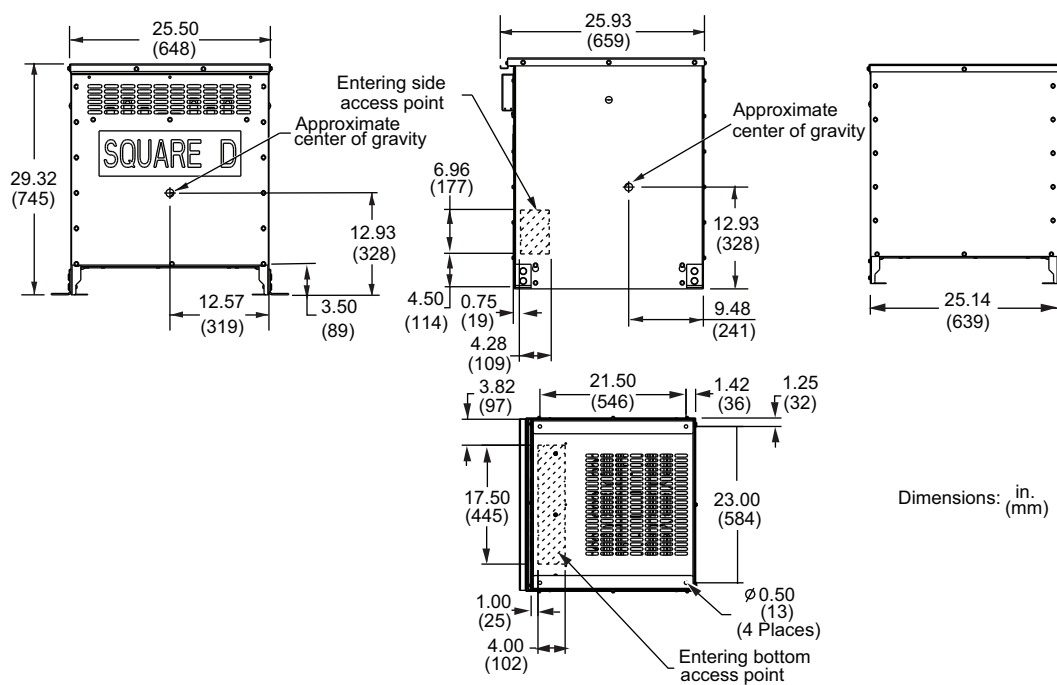
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN45T3H	98.45%	Al	150°C	104	1446	4.10	2.60	0.88	369
EXN45T3HCU	98.51%	Cu	150°C	99	1384	3.44	1.68	0.59	399
EXN45T3HF	98.47%	Al	115°C	132	1065	4.36	2.58	1.21	400
EXN45T3HFCU	98.48%	Cu	115°C	99	1354	3.72	2.29	0.71	428
EXN45T3HB	98.44%	Al	80°C	130	1041	4.10	3.43	1.58	416
EXN45T3HBCU	98.59%	Cu	80°C	108	1032	4.12	3.48	1.58	509
45 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN45T65H	98.44%	Al	150°C	104	1458	4.10	2.62	0.83	368
EXN45T65HCU	98.55%	Cu	150°C	99	1326	3.37	1.76	0.61	405
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 39 dB									
EXN45T1814H	98.44%	Al	150°C	112	1380	3.95	2.62	0.93	373
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 39 dB									
EXN45T6H	98.44%	Al	150°C	104	1449	4.06	2.60	0.87	369
EXN45T6HCT	98.44%	Al	150°C	104	1449	4.06	2.60	0.87	369
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/219, Sound Level 39 dB									
EXN45T1755H	98.49%	Al	150°C	107	1346	3.95	2.67	0.97	374
45 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 39 dB									
EXN45T3184H	98.45%	Al	150°C	123	1249	3.62	2.41	0.97	374
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 39 dB									
EXN45T1769H	98.40%	Al	150°C	104	1453	4.07	2.61	0.87	369
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN45T3155H	240	98.55%	Al	105	1279	3.86	2.69	1.07	395
	208	98.48%	Al	105	1394	4.05	2.71	0.96	395
45 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN45T3156H	240	98.53%	Al	99	1360	4.04	2.75	1.03	396
	208	98.45%	Al	99	1491	4.25	2.77	0.92	396
45 kVA, 480 Delta to 220Y/127 or 440 Delta to 220Y/127 (shipped as 480 Delta) Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN45T3166H	440	98.45%	Al	115	1334	3.79	2.45	0.93	392
	480	98.49%	Al	98	799	3.30	1.99	0.89	392
Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN45T3HNL	98.47%	Al	K4	108	1373	4.13	2.87	1.12	392
EXN45T3HCUNL	98.50%	Cu	K4	99	1410	4.02	2.62	0.86	428

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 42 dB									
EXN45T3HNLP	98.44%	Al	K13	108	1428	4.71	3.55	1.43	400
EXN45T3HCUNLP	98.54%	Cu	K13	108	1252	4.41	3.50	1.31	509
30 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T65HNLP	98.42%	Al	K13	104	640	2.70	1.72	1.05	370
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 39 dB									
EXN30T65HB	98.23%	Al	80°C	Contact factory					375
EXN30T65HBCU	98.23%	Cu	80°C						375
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 39 dB									
EXN30T1814HB	98.23%	Al	80°C	Contact factory					375
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 39 dB									
EXN30T6HB	98.23%	Al	80°C	Contact factory					375
EXN30T6HBCT	98.23%	Al	80°C	Contact factory					375
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 39 dB									
EXN30T1755HB	98.23%	Al	80°C	Contact factory					375
30 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 39 dB									
EXN30T3184HB	98.23%	Al	80°C	Contact factory					375
30 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 39 dB									
EXN30T1769HB	98.23%	Al	80°C	Contact factory					375
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
30 kVA, 240 Delta to 480Y/277, OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3155HB	240	98.23%	Al	Contact factory					375
	208	98.23%	Al						375
30 kVA, 240 Delta to 208Y/120, OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 39 dB									
EXN30T3156HB	240	98.23%	Al	Contact factory					375
	208	98.23%	Al						375

All units above ship in Type 2 enclosure – 19M, minimum rear and side clearance 1/2–inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.

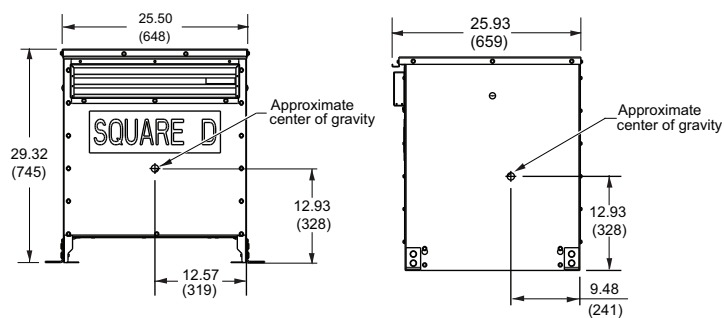
19M Dimensions



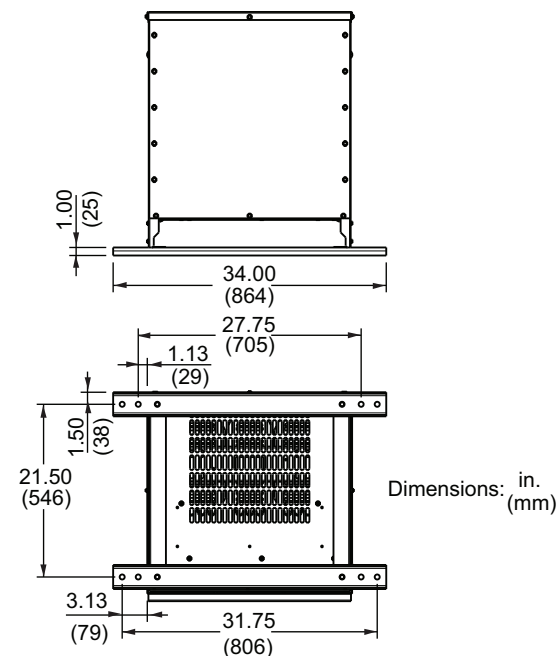
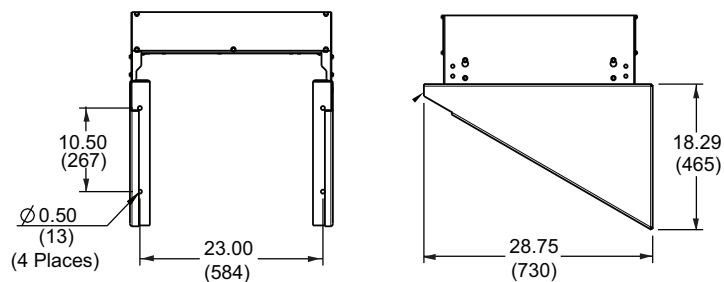
19M Accessories

Weathershield — Convert from Type 2 to Type 3R: 7400WS18M19M

Ceiling Mounting Bracket: 7400CMB18M19M20M



Wall Mounting Bracket: 7400WMB18M19M20M



EXN — Enclosure 20M

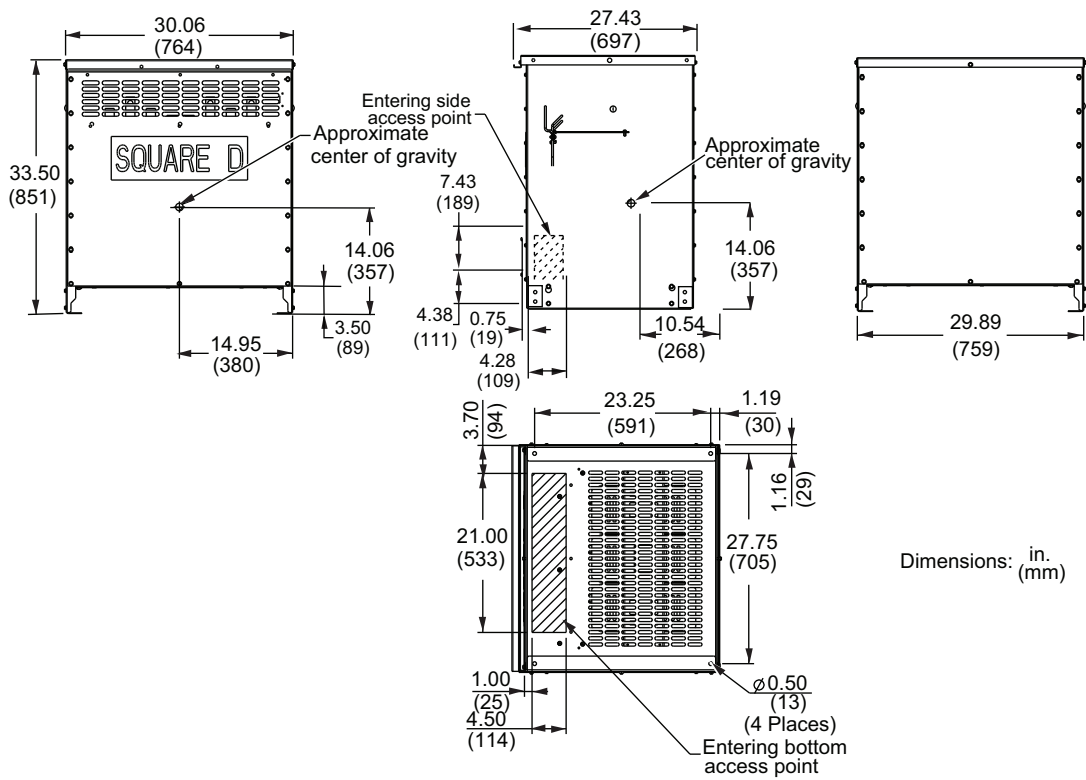
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN75T3H	98.63%	Al	150°C	142	2226	4.90	3.97	1.54	515
EXN75T3HCU	98.65%	Cu	150°C	142	2169	5.56	4.84	1.76	695
EXN75T3HF	98.67%	Al	115°C	144	1979	5.07	4.41	1.83	527
EXN75T3HFCU	98.74%	Cu	115°C	142	1813	4.01	3.28	1.29	676
EXN75T3HB	98.74%	Al	80°C	153	1590	5.05	4.63	2.36	580
EXN75T3HBCU	98.74%	Cu	80°C	142	1687	5.61	5.22	2.03	733
75 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN75T65H	98.64%	Al	150°C	142	2209	4.67	3.74	1.39	513
EXN75T65HCU	98.80%	Cu	150°C	127	1887	4.13	3.32	1.36	656
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN75T1814	98.67%	Al	150°C	144	2110	5.03	4.25	1.83	531
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN75T6H	98.66%	Al	150°C	144	2126	5.08	4.30	1.83	529
EXN75T6HCT	98.66%	Al	150°C	144	2126	5.08	4.30	1.83	529
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN75T1755H	98.64%	Al	150°C	118	2434	7.00	6.26	2.42	556
75 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN75T3184H	98.66%	Al	150°C	132	2255	6.34	5.64	2.40	556
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN75T1769H	98.66%	Al	150°C	144	2134	5.10	4.31	1.84	529
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3155H	240	98.71%	Al	160	1841	3.94	3.16	1.50	544
	208	98.64%	Al	160	2018	4.05	3.14	1.33	544
75 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3156H	240	98.71%	Al	144	1998	4.88	4.15	1.86	526
	208	98.64%	Al	144	2190	5.03	4.18	1.67	526
75 kVA, 480 Delta to 220Y/127 OR 440 Delta to 220Y/127 (shipped as 480 Delta), Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3166H	440	98.65%	Al	143	2181	5.32	4.52	1.88	534
	480	98.68%	Al	142	2079	5.25	4.52	1.98	534
Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3HNL	98.64%	Al	K4	144	2173	5.21	4.41	1.82	527
EXN75T3HCUNL	98.72%	Cu	K4	142	1988	4.15	3.28	1.29	584

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 47 dB									
EXN75T3HNLP	98.70%	Al	K13	153	1933	5.26	4.63	2.36	580
EXN75T3HCUNLP	98.65%	Cu	K13	142	2169	5.56	4.82	2.13	700
45 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 42 dB									
EXN45T65HNLP	98.62%	Al	K13	142	786	2.78	2.22	1.72	513
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN45T65HB	98.40%	Al	80°C	Contact factory					535
EXN45T65HBCU	98.40%	Cu	80°C	Contact factory					535
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN45T1814HB	98.40%	Al	80°C	142	786	2.78	2.22	1.72	513
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN45T3155HB	240	98.40%	Al	Contact factory					535
	208	98.40%	Al						535
45 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN45T3156HB	240	98.40%	Al	Contact factory					535
	208	98.40%	Al						535
Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN45T6HB	98.40%	Al	80°C	Contact factory					535
EXN45T6HBCT	98.40%	Al	80°C						535
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN45T1755HB	98.40%	Al	80°C	Contact factory					535
45 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN45T3184HB	98.40%	Al	80°C	Contact factory					535
45 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN45T1769HB	98.40%	Al	80°C	Contact factory					535

All units above ship in Type 2 enclosure – 20M, minimum rear and side clearance 1/2–inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

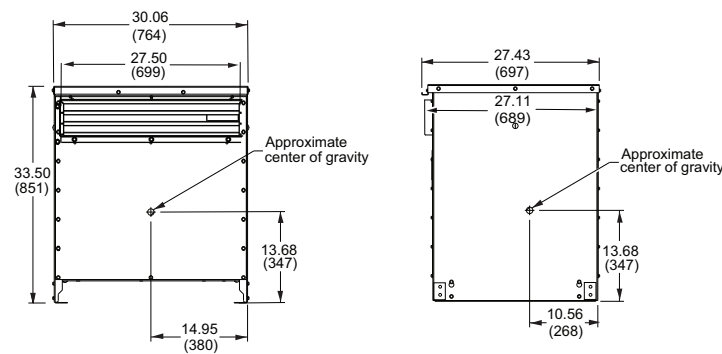
To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.

20M Dimensions

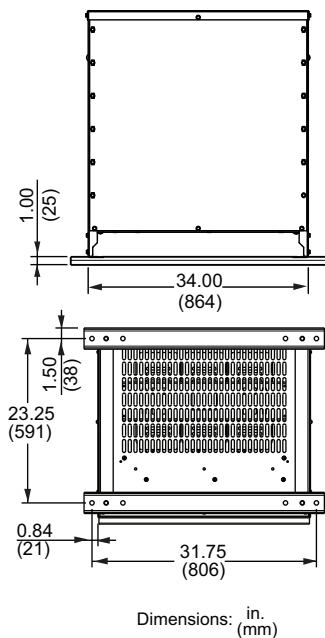


20M Accessories

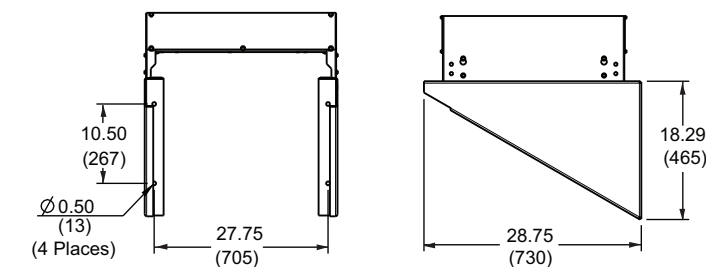
Weathershield — Convert from Type 2 to Type 3R: 7400WS20M



Ceiling Mounting Bracket: 7400CMB18M19M20M



Wall Mounting Bracket: 7400WMB18M19M20M



EXN — Enclosure 21M

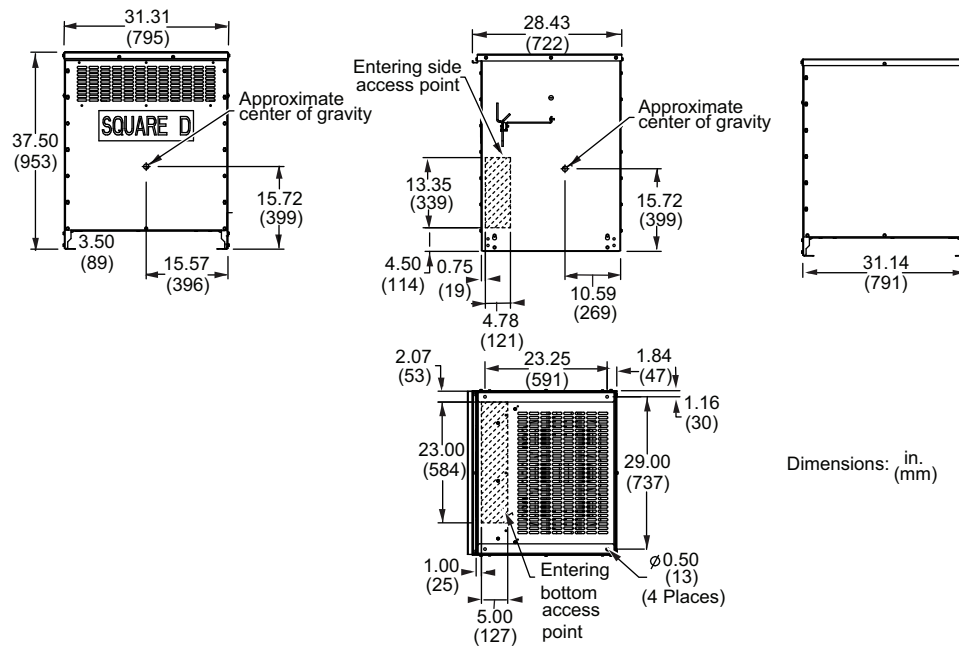
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN112T3H	98.80%	Al	150°C	222	2586	3.70	2.94	1.42	724
EXN112T3HCU	98.80%	Cu	150°C	238	2389	3.27	2.67	1.39	975
EXN112T3HF	98.84%	Al	115°C	237	2124	3.30	2.76	1.58	806
EXN112T3HFCU	98.87%	Cu	115°C	213	2043	3.79	3.38	1.80	963
EXN112T3HB	98.79%	Al	80°C	309	1507	2.54	2.19	1.75	949
EXN112T3HBCU	99.00%	Cu	80°C	227	1466	3.76	3.55	2.90	1146
112.5 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN112T65H	98.78%	Al	150°C	235	2526	3.62	2.91	1.44	727
EXN112T65HCU	98.81%	Cu	150°C	213	2611	3.27	2.40	1.08	844
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN112T1814H	98.82%	Al	150°C	221	2498	3.53	2.82	1.46	730
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN112T6H	98.81%	Al	150°C	227	2463	3.47	2.77	1.46	730
EXN112T6HCT	98.81%	Al	150°C	227	2463	3.47	2.77	1.46	730
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN112T1755H	98.80%	Al	150°C	199	2797	3.98	3.20	1.44	734
112.5 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN112T3184H	98.78%	Al	150°C	227	2606	3.64	2.88	1.43	734
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN112T1769H	98.81%	Al	150°C	227	2471	3.48	2.77	1.46	730
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3155H	240	98.83%	Al	221	2465	3.67	3.00	1.59	735
	208	98.77%	Al	221	2683	3.78	3.02	1.43	735
112.5 kVA, 240 Delta to 208Y/277 OR 208 Delta to 208Y/120 (shipped as 240 Delta) Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3156H	240	98.83%	Al	237	2316	3.48	2.87	1.61	811
	208	98.77%	Al	237	2556	3.62	2.89	1.43	811
112.5 kVA, 480 Delta to 220Y/127 OR 440 Delta to 220Y/127 (shipped as 480 Delta) Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3166H	480	98.82%	Al	274	1976	2.78	2.21	1.43	806
	440	98.79%	Al	274	2094	2.84	2.21	1.33	806
Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3HNL	98.78%	Al	K4	213	2731	3.80	3.01	1.49	713
EXN112T3HCUNL	98.90%	Cu	K4	213	2236	3.88	3.38	1.79	963

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 47 dB									
EXN112T3HNL P	98.79%	Al	K13	227	2541	3.70	3.00	1.72	802
EXN112T3HCUNLP	98.89%	Cu	K13	227	2124	3.33	2.79	1.55	1000
75 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 47 dB									
EXN75T65HNL P	98.75%	Al	K13	216	1179	2.21	1.60	1.34	702
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN75T65HB	98.60%	Al	80°C	Contact factory					750
EXN75T65HBCU	98.60%	Cu	80°C	Contact factory					750
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN75T1814HB	98.60%	Al	80°C	Contact factory					750
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN75T6HB	98.60%	Al	80°C	Contact factory					750
EXN75T6HBCT	98.60%	Al	80°C	Contact factory					750
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN75T1755HB	98.60%	Al	80°C	Contact factory					750
75 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN75T3184HB	98.60%	Al	80°C	Contact factory					750
75 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN75T1769HB	98.60%	Al	80°C	Contact factory					750
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
75 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3155HB	240	98.60%	Al	Contact factory					750
	208	98.60%	Al						750
75 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 80°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN75T3156HB	240	98.60%	Al	Contact factory					750
	208	98.60%	Al						750

All units above ship in Type 2 enclosure – 21M, minimum rear and side clearance 1/2–inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.

21M Dimensions

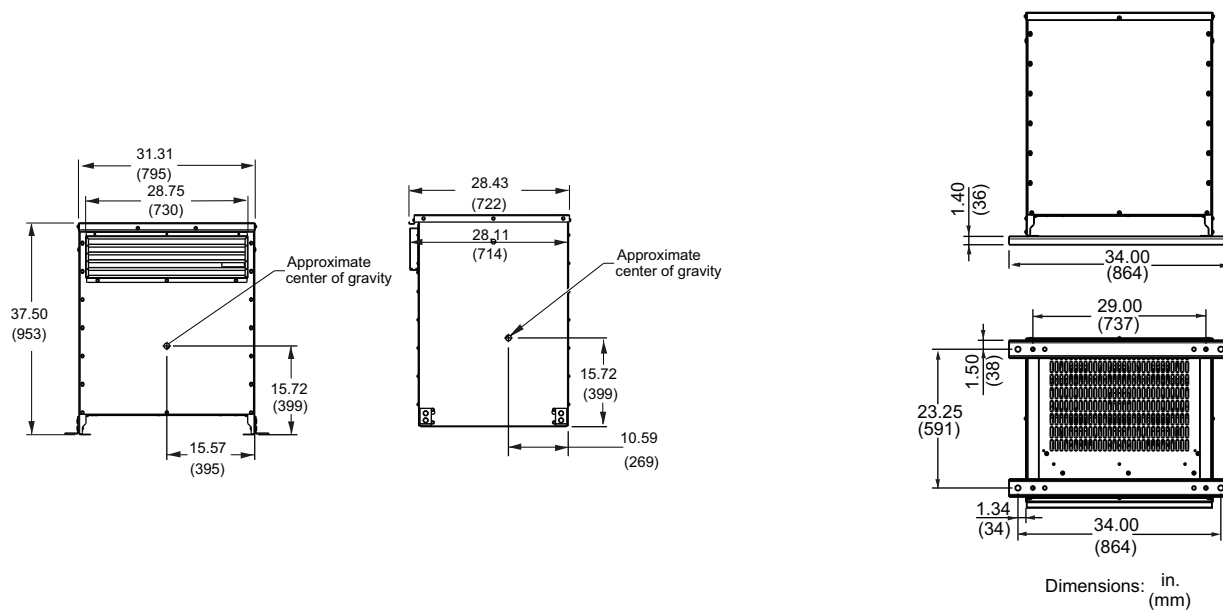


EXN112T3H Dimensions

21M Accessories

Weathershield — Convert from Type 2 to Type 3R: 7400WS21M

Ceiling Mounting Bracket: 7400CMB21M



EXN — Enclosure 22M

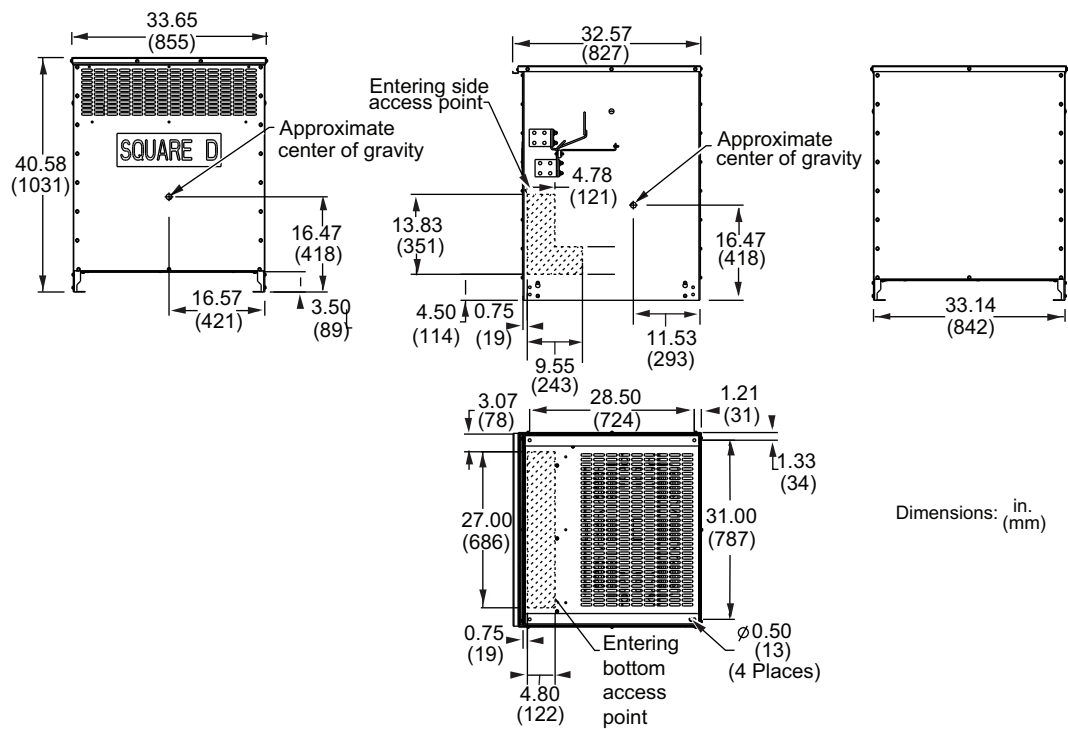
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN150T3H	98.89%	Al	150°C	301	2909	3.10	2.48	1.47	933
EXN150T3HCU	98.98%	Cu	150°C	235	3045	3.79	3.26	1.70	1224
EXN150T3HF	98.87%	Al	115°C	318	2649	3.36	2.92	1.81	1017
EXN150T3HFCU	98.94%	Cu	115°C	263	2805	4.56	4.26	2.39	1303
EXN150T3HB	98.92%	Al	80°C	348	1971	3.92	3.73	3.13	1208
EXN150T3HBCU	99.09%	Cu	80°C	228	2221	5.45	5.28	3.91	1424
150 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN150T65H	98.90%	Al	150°C	301	2819	3.14	2.59	1.61	1002
EXN150T65HCU	98.97%	Cu	150°C	217	3301	5.23	4.80	2.33	1192
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN150T1814	98.93%	Al	150°C	297	2719	3.08	2.57	1.66	1010
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN150T6H	98.91%	Al	150°C	306	2721	3.08	2.57	1.66	1010
EXN150T6HCT	98.91%	Al	150°C	306	2721	3.08	2.57	1.66	1010
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN150T1755H	98.90%	Al	150°C	285	3002	3.20	2.58	1.48	997
150 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN150T3184H	98.87%	Al	150°C	320	2783	2.92	2.33	1.47	997
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN150T1769H	98.91%	Al	150°C	306	2730	3.09	2.57	1.66	1007
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
150 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN150T3155H	240	98.93%	Al	314	2555	3.12	2.67	1.90	1020
	208	98.89%	Al	314	2768	3.20	2.69	1.73	1020
150 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta) Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN150T3156H	240	98.92%	Al	311	2626	3.22	2.76	1.90	1015
	208	98.88%	Al	311	2841	3.31	2.78	1.73	1015
150 kVA, 480 Delta to 220Y/127 OR 440 Delta to 220Y/127 (shipped as 480 Delta) Pri Taps: 400/420/440/460/480/500, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN150T3166H	480	98.83%	Al	Contact factory					—
	440	98.83%	Al						—

Cat. No.	DOE 2016 Efficiency	Winding Material	K-Rating	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
150 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN150T3HNL	98.87%	Al	K4	308	2844	3.37	2.85	1.88	1012
EXN150T3HCUNL	98.93%	Cu	K4	263	3016	4.35	3.98	2.26	1303
112.5 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, 150°C Rise, 220°C Insulation, Sound Level 47 dB									
EXN112T65HNLP	98.89%	Al	K13	257	1847	2.96	2.52	2.01	913
Cat. No.	DOE 2016 Efficiency	Winding Material	Temp. Rise 220°C Insulation	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 600 Delta 6-2.5% 2+4- Pri Taps, 208Y/120, Sound Level 44 dB									
EXN112T65HB	98.74%	Al	80°C	Contact factory					1020
EXN112T65HBCU	98.74%	Cu	80°C	Contact factory					1020
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 480Y/277, Sound Level 44 dB									
EXN112T1814HB	98.74%	Al	80°C	Contact factory					1020
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 240 Delta, [CT – 120CT 7.5% capacity], Sound Level 44 dB									
EXN112T6HB	98.40%	Al	80°C	Contact factory					1020
EXN112T6HBCT	98.74%	Al	80°C	Contact factory					1020
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 380Y/220, Sound Level 44 dB									
EXN112T1755HB	98.74%	Al	80°C	Contact factory					1020
112.5 kVA, 480 Delta 6-2.5% 4+2- Pri Taps, 400Y/231, Sound Level 44 dB									
EXN112T3184HB	98.74%	Al	80°C	Contact factory					1020
112.5 kVA, 480 Delta 6-2.5% 2+4- Pri Taps, 415Y/240, Sound Level 44 dB									
EXN112T1769HB	98.74%	Al	80°C	Contact factory					1020
Cat. No.	Primary Voltage (used)	DOE 2016 Efficiency	Winding Material	Core Loss	Coil Loss	%IZ	%IX	X/R	Weight (lbs.)
112.5 kVA, 240 Delta to 480Y/277 OR 208 Delta to 480Y/277 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3155HB	240	98.74%	Al	Contact factory					1020
	208	98.74%	Al						1020
112.5 kVA, 240 Delta to 208Y/120 OR 208 Delta to 208Y/120 (shipped as 240 Delta), Pri Taps: 192/200/208/216/232/240/248, 150°C Rise, 220°C Insulation, Sound Level 44 dB									
EXN112T3156HB	240	98.74%	Al	Contact factory					1020
	208	98.74%	Al						1020

All units above ship in Type 2 enclosure – 22M, minimum rear and side clearance 1/2–inch – Front Clearance for ventilated opening is six inches (must meet minimum code access requirements).

To be compliant with the seismic requirements of ASCE/SEI 7. This unit is self-certified to ICS ES AC156 by shake table qualifications testing.

22M Dimensions

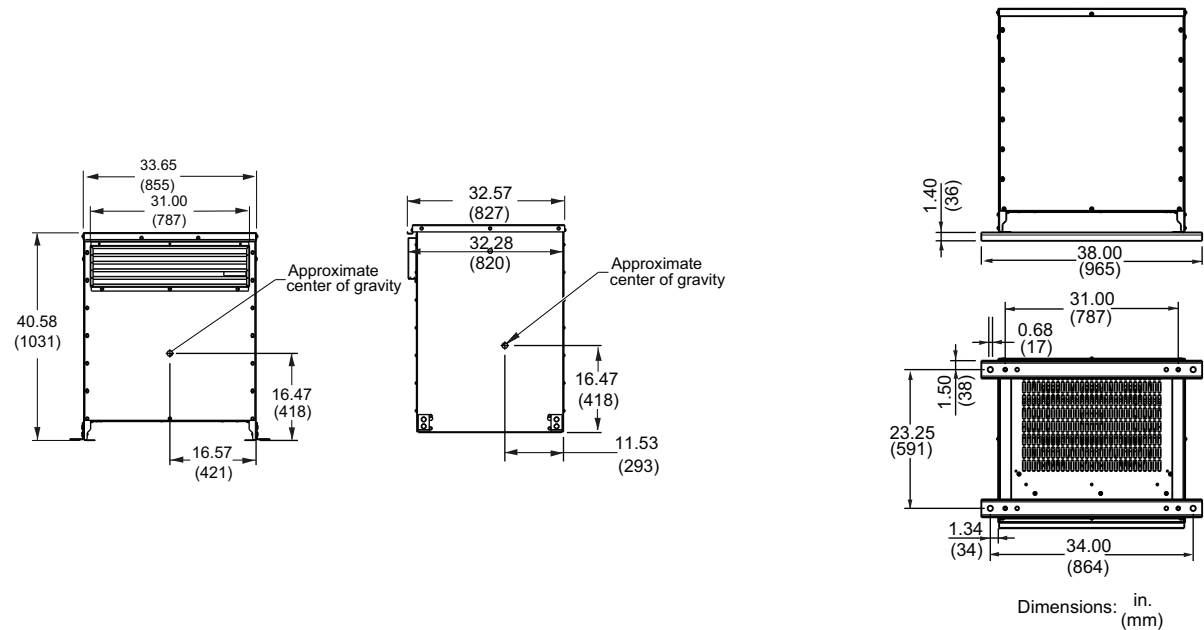


EXN150T3H Dimensions

22M Accessories

Weathershield — Convert Type 2 enclosure to Type 3R: 7400WS22M

Ceiling Mounting Bracket: 7400CMB22M

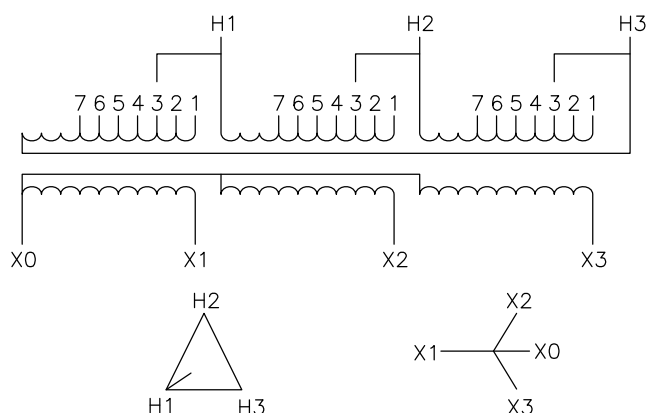


Transformer Connections

Voltage Code "3"		Voltage Code "65"		Voltage Code "1814"	
Primary Volts	2–2.5% FCAN 4–2.5% FCBN	Primary Volts	2–2.5% FCAN 4–2.5% FCBN	Primary Volts	2–2.5% FCAN 4–2.5% FCBN
504	1	630	1	504	1
492	2	615	2	492	2
480	3	600	3	480	3
468	4	585	4	468	4
456	5	570	5	456	5
444	6	555	6	444	6
432	7	540	7	432	7

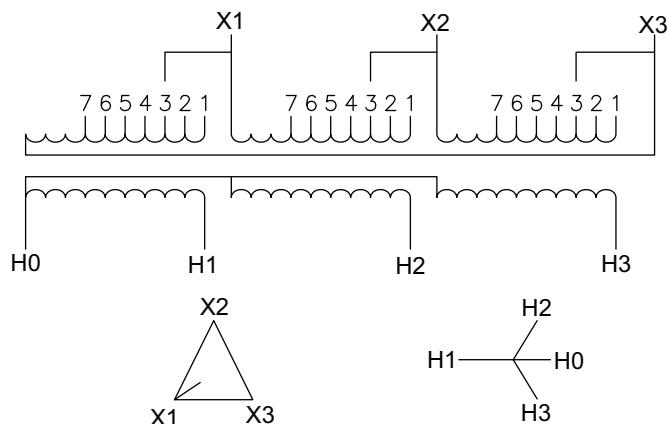
Voltage Code "3156"	
Primary Volts	Full Capacity Taps
248	1
240	2
232	3
216	4
208	5
200	6
192	7

NOTE: Per UL 1561, unit shipped connected to 240 V tap. Nameplate has nominal connections for 240 V and 208 V.



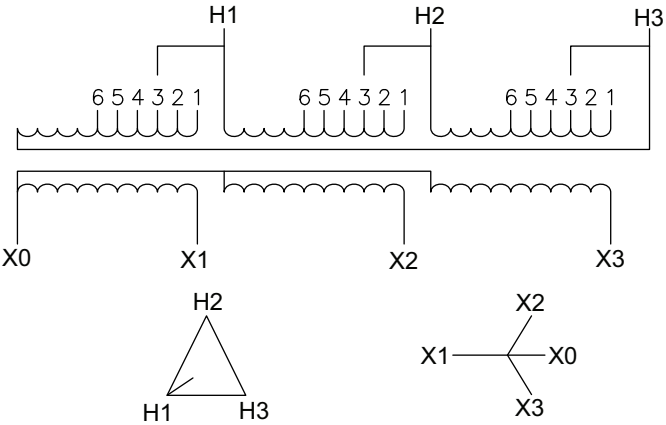
Voltage Code "3155"	
Primary Volts	Full Capacity Taps
248	1
240	2
232	3
216	4
208	5
200	6
192	7

NOTE: Per UL 1561, unit shipped connected to 240 V tap. Nameplate has nominal connections for 240 V and 208 V.

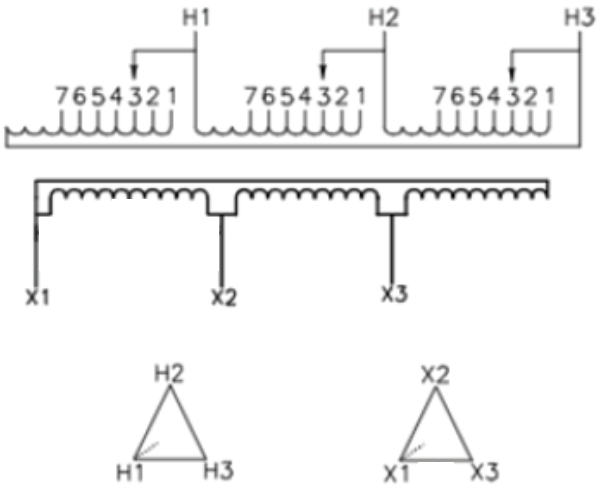


Voltage Code “3166”	
Primary Volts	Full Capacity Taps
500	1
480	2
460	3
440	4
420	5
400	6

NOTE: Per UL 1561, unit shipped connected to 480 V tap. Nameplate has nominal connections for 480 V and 440 V.

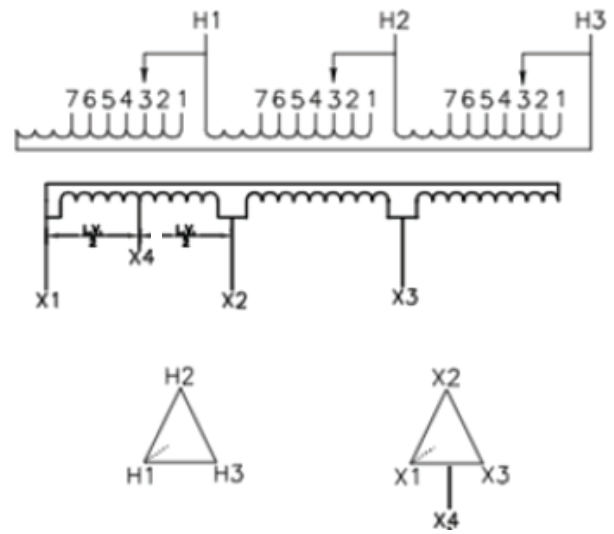


Voltage Code “6”	
Primary Volts	2–2.5% FCAN 4–2.5% FCBN
504	1
492	2
480	3
468	4
456	5
444	6
432	7



Voltage Code "6" and "CT"	
Primary Volts	Full Capacity Taps
504	1
492	2
480	3
468	4
456	5
444	6
432	7

NOTE: "CT" 120 V center tap (X4) limited to 7.5% capacity.



Overcurrent Protection

When voltage is applied to the input winding of a transformer, there can be a brief period of inrush current until the transformer core stabilizes. Inrush lasts approximately six power cycles, or about 0.1 seconds. The magnitude of the inrush varies depending on when the switch closes on the power wave, so that inrush can be anywhere from zero to greater than the full load current rating of the transformer.

In addition, the impedance of the supply system can influence the amount of inrush current the transformer can draw. To avoid tripping circuit breakers or blowing fuses on the primary side of the transformer during energizing, careful coordination of fuse sizes or circuit breaker handle ratings and magnetic trip settings is essential. This coordination requires information about maximum possible inrush to be expected from the particular transformer in question.

In order to provide optimal coordination and prevent possible inrush nuisance tripping, the primary overcurrent protection should be adjusted based on the maximum inrush current. This will result in the primary overcurrent protection exceeding the 125% allowance in the NEC for primary-only protection, and secondary protection will be required.

Inrush Information

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
EXN15T3H	480	18.04	336	18.60X
EXN15T3HCU			267	14.81X
EXN15T3HF			272	15.06X
EXN15T3HFCU			272	15.06X
EXN15T3HB			234	12.98X
EXN15T3HBCU			220	12.18X
EXN15T3HNL			272	15.06X
EXN15T3HCUNL			272	15.06X
EXN15T3HNLP			239	13.24X
EXN15T3HCUNLP			220	12.18X
EXN15T65H	600	14.43	217	15.00X
EXN15T65HCU			221	15.34X
EXN15T1814H	480	18.04	207	11.49X
EXN15T6H			195	10.79X
EXN15T6HCT			195	10.79X
EXN15T3155H	240	36.08	472	13.08X
	208		528	12.67X
EXN15T3156H	240	36.08	459	12.72X
	208		444	12.31X

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
<i>EXN30T3H</i>	480	36.08	536	13.86X
<i>EXN30T3HCU</i>			430	11.92X
<i>EXN30T3HF</i>			616	17.07X
<i>EXN30T3HFCU</i>			418	11.57X
<i>EXN30T3HB</i>			389	10.77X
<i>EXN30T3HBCU</i>			581	16.10X
<i>EXN30T3HNL</i>			616	17.07X
<i>EXN30T3HCUNL</i>			418	11.57X
<i>EXN30T3HNLP</i>			420	11.64X
<i>EXN30T3HCUNLP</i>			581	16.10X
<i>EXN30T65H</i>	600	28.87	399	13.80X
<i>EXN30T65HCU</i>			360	12.47X
<i>EXN30T1814H</i>	480	36.08	532	14.73X
<i>EXN30T6H</i>			547	15.15X
<i>EXN30T6HCT</i>			547	15.15X
<i>EXN30T3155H</i>	240	72.17	1031	14.28X
	208		1127	13.53X
<i>EXN30T3156H</i>	240		1059	14.67X
	208		1222	14.21X

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
<i>EXN45T3H</i>	480	54.13	736	13.60X
<i>EXN45T3HCU</i>			709	13.10X
<i>EXN45T3HF</i>			671	12.40X
<i>EXN45T3HFCU</i>			620	11.46X
<i>EXN45T3HB</i>			625	11.55X
<i>EXN45T3HBCU</i>			562	10.39X
<i>EXN45T3HNL</i>			576	10.65X
<i>EXN45T3HCUNL</i>			582	10.75X
<i>EXN45T3HNLP</i>			496	9.16X
<i>EXN45T3HCUNLP</i>			532	9.83X
<i>EXN45T65H</i>	600	43.30	475	10.98X
<i>EXN45T65HCU</i>			571	13.18X
<i>EXN45T1814H</i>	480	54.13	586	10.83X
<i>EXN45T6H</i>			593	10.96X
<i>EXN45T6HCT</i>			593	10.96X
<i>EXN45T3155H</i>	240	108.25	1146	10.59X
	208		1334	10.68X
<i>EXN45T3156H</i>	240		1014	9.37X
	208		1165	9.33X

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
EXN75T3H	480	90.21	785	8.70X
EXN75T3HCU			734	8.14X
EXN75T3HF			777	8.61X
EXN75T3HFCU			782	8.67X
EXN75T3HB			801	8.88X
EXN75T3HBCU			706	7.83X
EXN75T3HNL			777	8.61X
EXN75T3HCUNL			852	9.44X
EXN75T3HNLP			771	8.55X
EXN75T3HCUNLP			739	8.19X
EXN75T65H	600	72.17	662	9.17X
EXN75T65HCU			611	8.47X
EXN75T1814H	480	90.21	777	8.61X
EXN75T6H			777	8.61X
EXN75T6HCT			777	8.61X
EXN75T3155H	240	180.42	1931	10.70X
	208		2207	10.60X
EXN75T3156H	240		1662	9.21X
	208		1938	9.31X

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
EXN112T3H	480	135.32	1349	9.97X
EXN112T3HCU			1563	11.55X
EXN112T3HF			1536	11.35X
EXN112T3HFCU			1455	10.75X
EXN112T3HB			1912	14.13X
EXN112T3HBCU			1329	9.82X
EXN112T3HNL			1495	11.05X
EXN112T3HCUNL			1455	10.75X
EXN112T3HNLP			1444	10.67X
EXN112T3HCUNLP			1558	11.51X
EXN112T65H	600	108.25	1259	11.63X
EXN112T65HCU			1354	12.51X
EXN112T1814H	480	135.32	1476	10.91X
EXN112T6H			1518	11.22X
EXN112T6HCT			1518	11.22X
EXN112T3155H	240	270.63	3031	11.20X
	208		3020	9.67X
EXN112T3156H	240		2958	10.93X
	208		2566	9.48X

Cat. No.	Primary Voltage	Primary Nameplate Current	Max RMS Inrush Amperes	RMS Peak Inrush Multiplier
<i>EXN150T3H</i>	480	180.42	2149	11.91X
<i>EXN150T3HCU</i>			1386	7.68X
<i>EXN150T3HF</i>			1907	10.57X
<i>EXN150T3HFUCU</i>			1476	8.18X
<i>EXN150T3HB</i>			1909	10.58X
<i>EXN150T3HBCU</i>			1332	7.38X
<i>EXN150T3HNL</i>			1972	10.93X
<i>EXN150T3HCUNL</i>			1476	8.18X
<i>EXN150T65H</i>	600	144.34	1653	11.45X
<i>EXN150T65HCU</i>			1060	7.34X
<i>EXN150T1814H</i>	480	180.42	1983	10.99X
<i>EXN150T6H</i>			2053	11.38X
<i>EXN150T6HCT</i>				
<i>EXN150T3155H</i>	240	360.84	4262	11.81X
	208		4717	11.33X
<i>EXN150T3156H</i>	240		4316	11.96X
	208		4142	11.48X

Cat. No.	Primary Voltage	Primary Nameplate Current	Circuit Breaker Handle Ratings	Schneider Electric Circuit Breaker Family		
				E-Frame	B-Frame	H-Frame
EXN15T3H	480 Delta	18.04	25	Max inrush exceeds trip curve	Fixed (BD/BG/BJ)	Fixed (HD/HG/HJ/HL/HR)
			30			
			35	Fixed (ED/EG/EJ)		
			40			
			45			
EXN30T3H	480 Delta	36.08	50	Max inrush exceeds trip curve	Max inrush exceeds trip curve	Electronic trip setting (HD/HG/HJ/HL/HR)
			60			
			70			
			80	Fixed (ED/EG/EJ)	Fixed (BD/BG/BJ)	Fixed (HD/HG/HJ/HL/HR)
			90			
			100			
EXN45T3H	480 Delta	54.13	70	Max inrush exceeds trip curve	Max inrush exceeds trip curve	Electronic trip setting (HD/HG/HJ/HL/HR)
			80	Fixed (ED/EG/EJ)		Fixed (BD/BG/BJ)
			90			
			100			
			110			
			125			
EXN75T3H	480 Delta	90.21	125	Fixed (ED, EG, EJ)	Fixed (BD, BG, BJ)	Electronic trip setting (HD/HG/HJ/HL/HR)
			150	—	—	
			Handle Ratings	J-Frame	L-Frame	
			125	Fixed (JD/JG/JJ/JL/JR)	Electronic trip setting (LD/LG/LJ/LL/LR)	
			150			
			175			
			200			
			225			

Schneider Electric
800 Federal Street
01810 Andover, MA
USA

888-778-2733

www.schneider-electric.com

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