

NEMA Type 4X
transformer enclosures

Reliable performance in the harshest applications

Combine the power of Eaton's proven dry-type distribution transformer technology with NEMA® Type 4X enclosures for robust environmental protection in the harshest of industrial and commercial applications.



EATON

Powering Business Worldwide

NEMA Type 4X transformer enclosures



Featuring NEMA Type 4X transformer enclosures



The Eaton NEMA Type 4X dry-type transformer is designed to withstand tough environments and protect personnel from hazardous electrical parts.

Features and benefits:

Withstand tough applications: Apply Eaton NNEMA Type 4X transformer enclosures in environments where equipment can suffer damage from dust, wind, ice and water ingress. The core-coil assembly is designed to completely seal out moisture and other contaminants. A 180°C insulation system and 115°C temperature rise is standard.

Prevent corrosion: Increase equipment protection with standard NEMA 4X enclosure manufactured using Grade 304 stainless steel. For environments that contain chlorides, such as salt or saltwater spray, Grade 316 stainless steel enclosures are available.

Enhance flexibility: Available with aluminum or copper windings, NEMA 4X enclosed transformer configurations include single-phase ratings of 0.1 kVA to 37.5 kVA, and three-phase ratings of 3 kVA to 75 kVA. Optional aluminum windings reduce the weight and cost of the transformer compared to a copper-wound equivalent.

Surge protection:

Provide surge protection for network phone lines, cable TV and satellite applications.

Options and accessories:

- Grade 316 stainless steel enclosure for enhanced corrosion protection
- Aluminum or copper windings (3 kVA and larger)
- Low audible sound levels
- 115°C temperature rise standard; 80°C rise optional.
- 60 Hz operation standard; 50/60 Hz optional

Standards:

- UL1561
- UL 5085
- NEMA ST-20
- IEEE C57.12.01
- cUL Listed CSA C22.2

NEMA Type 4X dry-type transformer ratings:

SINGLE-PHASE ENCAPSULATED – TYPE EP, 60 Hz, GRADE 304 STAINLESS STEEL ¹, 240 X 480 VOLTS TO 120/240 VOLTS

kVA	Full Capacity Taps		Type	°Temp. Rise	Frame	Wiring Diagram Number	Weight lbs. (kg)	Weathershield	Style Number
	FCAN	FCBN							
Aluminum Windings									
0.100 ²	—	—	EP	115	FR544X	3A	7 (3.18)	Indoor-Outdoor	S20N11S82SS4X
0.015 ²	—	—	EP	115	FR554X	3A	9 (4.09)	Indoor-Outdoor	S20N11S83SS4X
0.250 ²	—	—	EP	115	FR57P4X	3A	15 (6.81)	Indoor-Outdoor	S20N11P26SS4X
0.500 ²	—	—	EP	115	FR57P4X	3A	14 (6.36)	Indoor-Outdoor	S20N11P51SS4X
0.750 ²	—	—	EP	115	FR58AP4X	3A	22 (9.99)	Indoor-Outdoor	S20N11P76SS4X
1 ²	—	—	EP	115	FR67P4X	3A	30 (13.62)	Indoor-Outdoor	S20N11P01SS4X
1.5 ²	—	—	EP	115	FR67P4X	3A	41 (18.61)	Indoor-Outdoor	S20N11P16SS4X
2 ²	—	—	EP	115	FR68P4X	3A	41 (18.60)	Indoor-Outdoor	S20N11P02SS4X
3	—	—	EP	115	FR1764X	3A	75 (34.02)	Indoor-Outdoor	S20N11S03SS4X
3	³	³	EP	115	FR1764X	9A	75 (34.02)	Indoor-Outdoor	S20K11S03SS4X
5	—	—	EP	115	FR1774X	3A	107 (48.58)	Indoor-Outdoor	S20N11S05SS4X
5	³	³	EP	115	FR1774X	9A	105 (47.67)	Indoor-Outdoor	S20K11S05SS4X
7.5	—	—	EP	115	FR1784X	3A	136 (61.69)	Indoor-Outdoor	S20N11S07SS4X
7.5	³	³	EP	115	FR1784X	9A	130 (59.02)	Indoor-Outdoor	S20K11S07SS4X
10	—	—	EP	115	FR1794X	3A	196 (88.98)	Indoor-Outdoor	S20N11S10SS4X
10	³	³	EP	115	FR1794X	9A	198 (89.89)	Indoor-Outdoor	S20K11S10SS4X
15	—	—	EP	115	FR1804X	3A	215 (97.61)	Indoor-Outdoor	S20N11S15SS4X
15	³	³	EP	115	FR1804X	23A	215 (97.61)	Indoor-Outdoor	S20L11S15SS4X
25	—	—	EP	115	FR1824X	3A	393 (178.42)	Indoor-Outdoor	S20N11S25SS4X
25	⁴	⁴	EP	115	FR1824X	23A	453 (205.66)	Indoor-Outdoor	S20L11S25SS4X
37.5	⁴	⁴	EP	115	FR300A4X	248A	735 (333.68)	Indoor-Outdoor	S20L11S37SS4X ⁵
Copper Windings									
0.100 ²	—	—	EP	115	FR544X	3A	7 (3.18)	Indoor-Outdoor	S20N11S82SS4X
0.015 ²	—	—	EP	115	FR554X	3A	9 (4.09)	Indoor-Outdoor	S20N11S83SS4X
0.250 ²	—	—	EP	115	FR57P4X	3A	15 (6.81)	Indoor-Outdoor	S20N11P26SS4X
0.500 ²	—	—	EP	115	FR57P4X	3A	14 (6.36)	Indoor-Outdoor	S20N11P51SS4X
0.750 ²	—	—	EP	115	FR58AP4X	3A	22 (9.99)	Indoor-Outdoor	S20N11P76SS4X
1 ²	—	—	EP	115	FR67P4X	3A	30 (13.62)	Indoor-Outdoor	S20N11P01SS4X
1.5 ²	—	—	EP	115	FR68P4X	3A	41 (18.61)	Indoor-Outdoor	S20N11P02SS4X
2 ²	—	—	EP	115	FR68P4X	3A	41 (18.60)	Indoor-Outdoor	S20N11P16SS4X
3	—	—	EP	115	FR1764X	3A	75 (34.02)	Indoor-Outdoor	S20N11S03CUSS4X
3	³	³	EP	115	FR1764X	9A	75 (34.02)	Indoor-Outdoor	S20K11S03CUSS4X
5	—	—	EP	115	FR1774X	3A	107 (48.58)	Indoor-Outdoor	S20N11S05CUSS4X
5	³	³	EP	115	FR1774X	9A	105 (47.67)	Indoor-Outdoor	S20K11S05CUSS4X
7.5	—	—	EP	115	FR1784X	3A	136 (61.69)	Indoor-Outdoor	S20N11S07CUSS4X
7.5	³	³	EP	115	FR1784X	9A	130 (59.02)	Indoor-Outdoor	S20K11S07CUSS4X
10	—	—	EP	115	FR1794X	3A	196 (88.98)	Indoor-Outdoor	S20N11S10CUSS4X
10	³	³	EP	115	FR1794X	9A	198 (89.89)	Indoor-Outdoor	S20K11S10CUSS4X
15	—	—	EP	115	FR1804X	3A	215 (97.61)	Indoor-Outdoor	S20N11S15CUSS4X
15	³	³	EP	115	FR1804X	23A	215 (97.61)	Indoor-Outdoor	S20L11S15CUSS4X
25	—	—	EP	115	FR300A4X	3A	393 (178.42)	Indoor-Outdoor	S20N11S25CUSS4X
25	⁴	⁴	EP	115	FR300A4X	23A	453 (205.66)	Indoor-Outdoor	S20L11S25CUSS4X
37.5	⁴	⁴	EP	115	FR300A4X	248A	735 (333.68)	Indoor-Outdoor	S20L11S37CUSS4X ⁵

¹ Grade 304 stainless steel standard. Grade 316 stainless steel available as an option. Replace suffix “SS” with suffix “S6”

² Copper windings provided as standard

³ 1 at +10% FCBN at 240 volts; 2 at +5% FCBN at 480 volts

⁴ 2 at +5% FCBN at 240 volts; 4 at +2.5% FCBN at 480 volts

⁵ Floor-mount only

NEMA Type 4X dry-type transformer ratings:

THREE-PHASE ENCAPSULATED – TYPE EPT, 60 Hz, GRADE 304 STAINLESS STEEL ¹, 480 VOLTS TO 208Y/120 VOLTS

kVA	Full Capacity Taps		Type	°Temp. Rise	Frame	Wiring Diagram Number	Weight lbs. (kg)	Weathershielf	Style Number
	FCAN	FCBN							
Aluminum Windings									
3	—	2 at -5%	EPT	115	FR2014X	70A	125 (56.75)	Indoor-Outdoor	Y48G28T03SS4X ²
6	—	2 at -5%	EPT	115	FR2004X	70A	165 (74.91)	Indoor-Outdoor	Y48G28T06SS4X ²
6	2 at +2.5%	2 at -2.5%	EPT	115	FR2004X	72B	171 (77.63)	Indoor-Outdoor	Y48D28T06SS4X ²
9	—	2 at -5%	EPT	115	FR1034X	70A	180 (81.72)	Indoor-Outdoor	Y48G28T09SS4X ²
9	—	4 at -2.5%	EPT	115	FR1034X	503A	192 (87.17)	Indoor-Outdoor	Y48J28T09SS4X ²
9	2 at +2.5%	2 at -2.5%	EPT	115	FR1034X	72B	196 (88.98)	Indoor-Outdoor	Y48D28T09SS4X ²
15	2 at +2.5%	2 at -2.5%	EPT	115	FR954X	72B	281 (127.57)	Indoor-Outdoor	Y48D28T15SS4X ²
15	—	2 at -5%	EPT	115	FR954X	70A	269 (122.12)	Indoor-Outdoor	Y48G28T15SS4X ²
15	—	4 at -2.5%	EPT	115	FR954X	503A	268 (121.67)	Indoor-Outdoor	Y48J28T15SS4X ²
30	2 at +2.5%	4 at -2.5%	EPT	115	FR2434X	84A	539 (244.70)	Indoor-Outdoor	Y48M28T30SS4X
45	2 at +2.5%	4 at -2.5%	EPT	115	FR2444X	84A	723 (328.24)	Indoor-Outdoor	Y48M28T45SS4X
75	2 at +2.5%	4 at -2.5%	EPT	115	FR2454X	84A	1277 (579.75)	Indoor-Outdoor	Y48M28T75SS4X ³
Copper Windings									
3	—	2 at -5%	EPT	115	FR2014X	70A	139 (63.10)	Indoor-Outdoor	Y48G28T03CUSS4X ²
6	—	2 at -5%	EPT	115	FR2004X	70A	187 (84.90)	Indoor-Outdoor	Y48G28T06CUSS4X ²
6	2 at +2.5%	2 at -2.5%	EPT	115	FR2004X	72B	188 (85.35)	Indoor-Outdoor	Y48D28T06CUSS4X ²
9	—	2 at -5%	EPT	115	FR1034X	70A	226 (102.60)	Indoor-Outdoor	Y48G28T09CUSS4X ²
9	—	4 at -2.5%	EPT	115	FR1034X	503A	226 (102.60)	Indoor-Outdoor	Y48J28T09CUSS4X ²
9	2 at +2.5%	2 at -2.5%	EPT	115	FR1034X	72B	231 (104.87)	Indoor-Outdoor	Y48D28T09CUSS4X ²
15	2 at +2.5%	2 at -2.5%	EPT	115	FR954X	72B	276 (125.30)	Indoor-Outdoor	Y48D28T15CUSS4X ²
15	—	2 at -5%	EPT	115	FR954X	70A	283 (128.48)	Indoor-Outdoor	Y48G28T15CUSS4X ²
15	—	4 at -2.5%	EPT	115	FR954X	503A	299 (135.74)	Indoor-Outdoor	Y48J28T15CUSS4X ²
30	2 at +2.5%	4 at -2.5%	EPT	115	FR2434X	84A	602 (273.30)	Indoor-Outdoor	Y48M28T30CUSS4X
45	2 at +2.5%	4 at -2.5%	EPT	115	FR2444X	84A	829 (376.36)	Indoor-Outdoor	Y48M28T45CUSS4X
75	2 at +2.5%	4 at -2.5%	EPT	115	FR2454X	84A	1452 (659.20)	Indoor-Outdoor	Y48M28T75CUSS4X ³

¹ Grade 304 stainless steel standard. Grade 316 stainless steel available as an option. Replace suffix “SS” with suffix “S6”

² T-T connected (Scott T) secondary winding configuration

³ Floor-mount only

To learn more, please visit:
Eaton.com/transformers

Eaton
 Electrical Sector
 1000 Eaton Boulevard
 Cleveland, OH 44122 USA
 Eaton.com

© 2014 Eaton
 All Rights Reserved
 Printed in USA
 Publication number PA009003EN
 May 2014

Eaton is a registered trademark of Eaton.

All other trademarks are property of their respective owners.