

XDT and XTT hazardous location dry-type transformers

Resin encapsulated

Cl. I, Div. 2, Groups A, B, C, D
NEMA 3R, 4, 4X

4A

XDT and XTT dry-type transformers provide safe and efficient electric power distribution in the most extreme harsh and hazardous locations.

Applications:

XDT and XTT transformers are designed to operate where volatile flammable liquids or gases are handled, processed or used, and where ignitable concentrations of gases or vapors are normally prevented by positive mechanical ventilation, such as:

- Refineries
- Chemical and petrochemical plants
- Mining
- Corrosive process facilities
- Indoor and outdoor industrial applications

Features:

- Resin encapsulated core coil assembly for reliable performance in extreme environments
- NEMA 3R, 4 and 4X enclosures provide essential ingress protection
- 180°C insulation system with 115°C or 95°C winding temperature rise creates optimal loading capabilities
- Removable hinged door for front access to wiring compartment (XTT only)
- Custom configurations available to meet customer specifications

Certifications and compliances:

- Class I, Division 2, Groups A, B, C, D
- NEMA 3R, 4, 4X
- UL standards: UL1604, UL5085-1, UL5085-2
- cUL to C22.2 No. 66 and C22.2 No. 213-M1987

Standard materials:

- Enclosure –
XDT: painted steel (NEMA 3R) or 316 stainless steel (NEMA 4X);
XTT: painted steel (NEMA 4) or 316 stainless steel (NEMA 4X)
- Windings – copper or aluminum (optional)

Electrical ratings:

XDT:

- Single-phase – 0.5 to 37.5 kVA
- Three-phase – 3 to 75 kVA
- 180°C insulation
- 115°C winding temperature rise
- Frequency – 60 Hz
- Impedance – 2 to 5%

XTT:

- Three-phase – 112.5 to 150 kVA
- Three-phase 50°C ambient – 3 to 150 kVA at 400Y/231V
- 180°C insulation
- 95°C winding temperature rise
- Frequency – 60 Hz
- Impedance – 1.8 to 6.5%



XDT



XTT

Options:

Description

- NEMA 4X.....X
- Aluminum windings (XDT three-phase only).....AL

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Ordering information:

Single-phase

Primary voltage – 480V

Secondary voltage – 120/240V

kVA rating	Cat. # NEMA 3R	Cat. # NEMA 4X
0.5	XDT1A0A	XDT1A0AX
0.75	XDT1A0B	XDT1A0BX
1	XDT1A1	XDT1A1X
1.5	XDT1A1A	XDT1A1AX
2	XDT1A2	XDT1A2X
3	XDT1A3	XDT1A3X
5	XDT1A5	XDT1A5X
7.5	XDT1A7	XDT1A7X
10	XDT1A10	XDT1A10X
15	XDT1A15	XDT1A15X
25	XDT1A25	XDT1A25X
37.5	XDT1A37	XDT1A37X

Three-phase

Primary
voltage: 480V

Secondary voltage:	208Y/120V		240V		400Y/231V (50°C ambient)	
kVA rating	Cat. # NEMA 3R	Cat. # NEMA 4X	Cat. # NEMA 3R	Cat. # NEMA 4X	Cat. # NEMA 4	Cat. # NEMA 4X
3	XDT3B3	XDT3B3X	XDT3C3	XDT3C3X	XTT3F3-50C	XTT3F3X-50C
6	XDT3B6	XDT3B6X	XDT3C6	XDT3C6X	XTT3F6-50C	XTT3F6X-50C
9	XDT3B9	XDT3B9X	XDT3C9	XDT3C9X	XTT3F9-50C	XTT3F9X-50C
15	XDT3B15	XDT3B15X	XDT3C15	XDT3C15X	XTT3F15-50C	XTT3F15X-50C
30	XDT3B30	XDT3B30X	XDT3C30	XDT3C30X	XTT3F30-50C	XTT3F30X-50C
45	XDT3B45	XDT3B45X	XDT3C45	XDT3C45X	XTT3F45-50C	XTT3F45X-50C
75	XDT3B75	XDT3B75X	XDT3C75	XDT3C75X	XTT3F75-50C	XTT3F75X-50C
112.5	XTT3B112 ^A	XTT3B112X	XTT3C112 ^A	XTT3C112X	XTT3F112-50C	XTT3F112X-50C
150	XTT3B150 ^A	XTT3B150X	XTT3C150 ^A	XTT3C150X	XTT3F150-50C	XTT3F150X-50C

Primary
voltage: 600V

Secondary voltage:	208Y/120V		480Y/277V	
kVA rating	Cat. # NEMA 3R	Cat. # NEMA 4X	Cat. # NEMA 3R	Cat. # NEMA 4X
3	XDT3D3	XDT3D3X	XDT3E3	XDT3E3X
6	XDT3D6	XDT3D6X	XDT3E6	XDT3E6X
9	XDT3D9	XDT3D9X	XDT3E9	XDT3E9X
15	XDT3D15	XDT3D15X	XDT3E15	XDT3E15X
30	XDT3D30	XDT3D30X	XDT3E30	XDT3E30X
45	XDT3D45	XDT3D45X	XDT3E45	XDT3E45X
75	XDT3D75	XDT3D75X	XDT3E75	XDT3E75X
112.5	XTT3D112 ^A	XTT3D112X	XTT3E112 ^A	XTT3E112X
150	XTT3D150 ^A	XTT3D150X	XTT3E150 ^A	XTT3E150X

^A NEMA 4.

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Technical details:

Single-phase – NEMA 3R painted steel – copper windings:

kVA rating	Cat. #	Height (in.)	Width (in.)	Depth (in.)	Weight (lbs.)	Frame	Taps
1	XDT1A1	11.3	5.9	5.7	35	59H	None
1.5	XDT1A1A	13.4	6.3	6.4	44	67H	None
2	XDT1A2	13.4	6.3	6.4	51	68H	None
3	XDT1A3	14.3	7.5	8.0	79	176H	None
5	XDT1A5	16.2	10.0	9.9	140	177H	None
7.5	XDT1A7	16.2	10.0	9.9	146	178H	None
10	XDT1A10	19.0	12.9	10.6	240	179H	None
15	XDT1A15	19.0	12.9	10.6	260	180H	None
25	XDT1A25	23.3	15.8	13.3	409	182H	(2) at -5%

Single-phase – NEMA 4X stainless steel – copper windings:

kVA rating	Cat. #	Height (in.)	Width (in.)	Depth (in.)	Weight (lbs.)	Frame	Taps
1	XDT1A1X	10.3	9.9	7.8	30	67P4X	None
1.5	XDT1A1AX	10.3	9.9	7.8	36	67P4X	None
2	XDT1A2X	11.1	10.4	7.8	50	68P4X	None
3	XDT1A3X	11.3	11.7	9.5	80	1764X	None
5	XDT1A5X	14.8	13.9	9.5	130	1774X	None
7.5	XDT1A7X	14.6	13.9	11.2	160	1784X	None
10	XDT1A10X	17.6	16.9	11.9	230	1794X	None
15	XDT1A15X	17.7	16.7	11.9	320	1804X	None
25	XDT1A25X	28.5	22.5	14.7	900	3004X	(2) at -5%

Three-phase – NEMA 3R/4 painted steel – copper windings:

kVA rating	Cat. #				Height (in.)	Width (in.)	Depth (in.)	Weight (lbs.)	Frame	Taps
3	XDT3B3	XDT3C3	XDT3D3	XDT3E3	13.40	15.93	8.25	125	201H	(2) -5% FCBN
6	XDT3B6	XDT3C6	XDT3D6	XDT3E6	15.88	16.93	10.00	161	200H	(2) -5% FCBN
9	XDT3B9	XDT3C9	XDT3D9	XDT3E9	15.88	16.93	10.00	209	103H	(2) -5% FCBN
15	XDT3B15	XDT3C15	XDT3D15	XDT3E15	17.34	20.00	10.46	319	95H	(2) -5% FCBN
30	XDT3B30	XDT3C30	XDT3D30	XDT3E30	26.57	25.15	12.76	620	243H	(2) -5% FCBN
45	XDT3B45	XDT3C45	XDT3D45	XDT3E45	26.49	28.17	14.66	811	244H	(2) -5% FCBN
75	XDT3B75	XDT3C75	XDT3D75	XDT3E75	32.06	30.28	15.67	1460	245H	(2) -5% FCBN
112.5	XTT3B112	XTT3C112	XTT3D112	XTT3E112	25.63	36.36	30.75	2253	DQT9	(2) +2.5% FCAN; (4) -2.5% FCBN
150	XTT3B150	XTT3C150	XTT3D150	XTT3E150	31.38	36.63	30.50	2677	DQT10	(2) +2.5% FCAN; (4) -2.5% FCBN

Three-phase – NEMA 4X stainless steel – copper windings:

kVA rating	Cat. #				Height (in.)	Width (in.)	Depth (in.)	Weight (lbs.)	Frame	Taps
3	XDT3B3X	XDT3C3X	XDT3D3X	XDT3E3X	11.34	19.37	8.87	125	FR201H4X	(2) -5% FCBN
6	XDT3B6X	XDT3C6X	XDT3D6X	XDT3E6X	13.76	20.37	10.63	161	FR200H4X	(2) -5% FCBN
9	XDT3B9X	XDT3C9X	XDT3D9X	XDT3E9X	13.91	20.37	10.62	209	FR103H4X	(2) -5% FCBN
15	XDT3B15X	XDT3C15X	XDT3D15X	XDT3E15X	15.55	23.48	11.22	319	FR95H4X	(2) -5% FCBN
30	XDT3B30X	XDT3C30X	XDT3D30X	XDT3E30X	27.28	25.18	12.69	620	FR243H4X	(2) -5% FCBN
45	XDT3B45X	XDT3C45X	XDT3D45X	XDT3E45X	27.50	28.00	15.03	811	FR244H4X	(2) -5% FCBN
75	XDT3B75X	XDT3C75X	XDT3D75X	XDT3E75X	32.31	30.30	15.68	1460	FR245H4X	(2) -5% FCBN
112.5	XTT3B45X	XTT3C45X	XTT3D45X	XTT3E45X	25.63	36.36	30.75	2253	DQT9	(2) +2.5% FCAN; (4) -2.5% FCBN
150	XTT3B75X	XTT3C75X	XTT3D75X	XTT3E75X	31.38	36.63	30.50	2677	DQT10	(2) +2.5% FCAN; (4) -2.5% FCBN

^B Dimensions are for reference only and do not indicate the exact construction details.

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Technical details (continued):

Three-phase – 50°C ambient – NEMA 4 painted steel and 4X stainless steel – copper windings:

kVA rating	Catalog number		Height (in.)	Width (in.)	Depth (in.)	Weight (lbs.)		Frame	Taps
	NEMA 4	NEMA 4X				NEMA 4	NEMA 4X		
3	XTT3F3-50C	XTT3F3X-50C	15.39	15.88	9.88	135	145	DQT2	(1) +5% FCAN; (1) -5% FCBN
6	XTT3F6-50C	XTT3F6X-50C	14.69	19.13	11.88	140	200	DQT3	(1) +5% FCAN; (1) -5% FCBN
9	XTT3F9-50C	XTT3F9X-50C	17.25	22.38	13.88	200	300	DQT4	(2) +2.5% FCAN; (4) -2.5% FCBN
15	XTT3F15-50C	XTT3F15X-50C	21.88	26.1	16.5	425	450	DQT5	(2) +2.5% FCAN; (4) -2.5% FCBN
30	XTT3F30-50C	XTT3F30X-50C	21.88	26.13	19.75	520	530	DQT6	(2) +2.5% FCAN; (4) -2.5% FCBN
45	XTT3F45-50C	XTT3F45X-50C	25.63	32.38	22	835	915	DQT7	(2) +2.5% FCAN; (4) -2.5% FCBN
75	XTT3F75-50C	XTT3F75X-50C	26.64	35.1	26	1430	1430	DQT8	(2) +2.5% FCAN; (4) -2.5% FCBN
112.5	XTT3F112-50C	XTT3F112X-50C	31.38	36.63	30.5	2652	2652	DQT10	(2) +2.5% FCAN; (4) -2.5% FCBN
150	XTT3F150-50C	XTT3F150X-50C	33.11	38.88	32.25	3170	3170	DQT11	(2) +2.5% FCAN; (4) -2.5% FCBN

Additional information and configurations:

- Contact Customer Service for technical specifications (dimensions, weights, taps, etc.) on all other sizes.
- Special configurations are available upon request. Please contact Customer Service for additional details.