

General Purpose

Energy efficient dry-type transformers 600 Volt Class, isolation type, single and three phase, 15 kVA through 500 kVA. Indoor and outdoor models available.

Accessories and Optional Design Styles

- Electrostatic shield for quality power
- Wall mounting brackets (500 lbs maximum) (Item WB1C)
- Weather Shields (UL Listed/NEMA Type 3R)
- Stainless Steel Enclosures
- Totally enclosed non-ventilated designs (TENV) (Non UL) *
- Open core and coil designs (UL Recognized)
- Copper Wound designs
- Low temperature designs

Features

- UL Listed/NEMA Type 3R ventilated outdoor enclosures when used with optional weather shields (order separately)
- UL Class 220°C insulation system, 150°C temperature rise under full load
- Terminal board connections and spacious wiring compartment
- Panel enclosure design reduces labor time. Wiring diagram on inside front cover.



- High efficiency for low cost operation
- Compliant to NEMA TP-1 Standards
- Single and three phase availability
- Fast delivery
- 10 year limited warranty

Certifications and Compliances

- Listed
- UL 1561

Selection Tables: Single Phase

Group 1: 240 x 480 Volt Primary, 120/240 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ES5H15S	WS-15	28.00 (711.2)	16.00 (406.4)	16.00 (406.4)	210.0 (95.25)	1	1	62.5/31.3	125/62.5
25	ES5H25S	WS-15	28.00 (711.2)	16.00 (406.4)	16.00 (406.4)	245.0 (111.13)	1	1	104/52.1	208/104
37.5	ES5H37S	WS-17	31.00 (787.4)	18.00 (457.2)	18.00 (457.2)	340.0 (154.22)	1	1	156/78	313/156
50	ES5H50S	WS-17	31.00 (787.4)	18.00 (457.2)	18.00 (457.2)	415.0 (188.24)	1	1	208/104	416/208
75	ES5H75S	WS-09	44.00 (1117.6)	23.00 (584.2)	21.00 (533.4)	610.0 (276.69)	1	1	313/156	625/313
100	ES5H100S	WS-09	44.00 (1117.6)	23.00 (584.2)	21.00 (533.4)	705.0 (319.78)	1	1	417/208	833/417
167	ES5H167S	WS-16	46.00 (1168.4)	26.00 (660.4)	24.00 (609.6)	980.0 (444.52)	1	1	695/348	1392/695

Group 2 – 120/208/240/277 Volt Primary, 120/240 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps @ 277 V	Secondary Amps
15	ES12H15S	WS-15	28.00 (711.2)	16.00 (406.4)	16.00 (406.4)	215.0 (97.52)	1	2	54.2	125/62.5
25	ES12H25S	WS-15	28.00 (711.2)	16.00 (406.4)	16.00 (406.4)	250.0 (113.40)	1	2	90.3	208/104

Notes:

1. Weather shields (set of two) must be ordered separately.
 2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.
- * Not all optional designs are listed. Contact Technical Services.

Selection Tables: Three Phase

Group A: 480 Volt Δ Primary, 208/120 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET2H15 ³	WS-02	23.00(584.2)	18.00 (457.2)	14.00 (355.6)	187.0 (84.82)	1	5	18.1	41.7
	ET2H15S									
30	ET2H30 ³	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	292.0 (132.45)	1	5	36.1	83.4
	ET2H30S									
45	ET2H45 ³	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	376.0 (170.55)	1	5	54.2	125.0
	ET2H45S									
75	ET2H75 ³	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	569.0 (258.09)	1	5	90.3	208.0
	ET2H75S									
112.5	ET2H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	768.0 (348.36)	1	5	135.0	313.0
150	ET2H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	933.0 (423.20)	1	5	181.0	417.0
225	ET2H225S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1342.0 (608.72)	1	5	271.0	625.0
300	ET2H300S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1525.0 (691.73)	1	5	361.0	834.0
500	ET2H500S	WS-12	65.00 (1651.0)	45.00 (1143.0)	35.00 (889.0)	2460.0 (1115.84)	1	5	602.0	1390.0

Group B: 480 Volt Δ Primary, 240 Volt Δ , Secondary with reduced capacity center tap ⁴, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET5H15 ³	WS-02	23.00 (584.2)	19.00 (482.6)	14.00 (355.6)	189.0 (85.73)	1	6	18.1	36.1
	ET5H15S									
30	ET5H30 ³	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	292.0 (132.45)	1	6	36.1	72.3
	ET5H30S									
45	ET5H45 ³	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	381.0 (172.82)	1	6	54.2	108.0
	ET5H45S									
75	ET5H75 ³	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	560.0 (254.01)	1	6	90.3	181.0
	ET5H75S									
112.5	ET5H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	760.0 (344.73)	1	6	135.0	271.0
150	ET5H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	940.0 (426.38)	1	6	181.0	361.0
225	ET5H225S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1342.0 (608.72)	1	6	271.0	542.0
300	ET5H300S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1525.0 (691.73)	1	6	361.0	723.0
500	ET5H500S	WS-12	65.00 (1651.0)	45.00 (1143.0)	35.00 (889.0)	2460.0 (1115.84)	1	6	602.0	1204.0

Notes:

1. Weather shields (set of two) must be ordered separately.
2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.
3. Unshielded model.
4. Refer to *Capacity of Center Tap in Center Tap Delta Transformers* at the beginning of this section.

Selection Tables: Three Phase

Group C: 480 Volt Δ Primary, 480Y/277 Secondary, 60 Hz

KVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET81H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	189.0 (85.73)	1	8	18.1	18.1
30	ET81H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	8	36.1	36.1
45	ET81H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	380.0 (172.37)	1	8	54.2	54.2
75	ET81H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	560.0 (254.01)	1	8	90.3	90.3
112.5	ET81H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	780.0 (353.80)	1	8	135.0	135.0
150	ET81H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	933.0 (423.20)	1	8	181.0	181.0
225	ET81H225S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1342.0 (608.72)	1	8	271.0	271.0
300	ET81H300S	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1525.0 (691.73)	1	8	361.0	361.0
500	ET81H500S	WS-12	65.00 (1651.0)	45.00 (1143.0)	35.00 (889.0)	2460.0 (1115.84)	1	8	602.0	602.0

Group D: 208 Volt Δ Primary, 480Y/277 Secondary, 60 Hz

KVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET84H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	195.0 (88.45)	1	10	41.7	18.1
30	ET84H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	10	83.4	36.1
45	ET84H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	375.0 (170.09)	1	10	125.0	54.2
75	ET84H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	570.0 (258.55)	1	10	208.0	90.3
112.5	ET84H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	780.0 (353.80)	1	10	313.0	135.0
150	ET84H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	972.0 (440.89)	1	10	417.0	181.0

Notes:

- Weather shields (set of two) must be ordered separately.
- Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

Selection Tables: Three Phase

Group E: 208 Volt Δ Primary, 208Y/120 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET3H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	190.0 (86.18)	1	9	41.7	41.7
30	ET3H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	9	83.4	83.4
45	ET3H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	380.0 (172.37)	1	9	125.0	125.0
75	ET3H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	570.0 (258.55)	1	9	208.0	208.0
112.5	ET3H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	805.0 (365.14)	1	9	313.0	313.0
150	ET3H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	972.0 (440.89)	1	9	416.0	416.0

Group F: 240 Volt Δ Primary, 208Y/120 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET6H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	190.0 (86.18)	1	11	36.1	41.7
30	ET6H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	11	72.3	83.4
45	ET6H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	380.0 (172.37)	1	11	108.0	125.0
75	ET6H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	570.0 (258.55)	1	11	181.0	208.0
112.5	ET6H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	805.0 (365.14)	1	11	271.0	313.0
150	ET6H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	972.0 (440.89)	1	11	361.0	417.0

Group G: 240 Volt Δ Primary, 480Y/277 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET85H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	190.0 (86.18)	1	12	36.1	18.1
30	ET85H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	12	72.3	36.1
45	ET85H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	380.0 (172.37)	1	12	108.0	54.2
75	ET85H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	560.0 (254.01)	1	12	181.0	90.3
112.5	ET85H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	805.0 (365.14)	1	12	271.0	135.0
150	ET85H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	972.0 (440.89)	1	12	361.0	181.0

Notes:

- Weather shields (set of two) must be ordered separately.
- Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.

Selection Tables: Three Phase

Group J: 480 Volt Δ Primary, 380Y/220 Secondary, 60 Hz

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET79H15S	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	190.0 (86.18)	1	7	18.1	22.8
30	ET79H30S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	295.0 (133.81)	1	7	36.1	45.6
45	ET79H45S	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	380.0 (172.37)	1	7	54.2	68.4
75	ET79H75S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	360.0 (163.29)	1	7	90.3	114.0
112.5	ET79H112S	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	770.0 (349.27)	1	7	135.3	170.9
150	ET79H150S	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	933.0 (423.20)	1	7	180.4	227.9

Group K: 480 Volt Δ Primary, 208Y/120 Secondary, 60 Hz, Copper-Wound

kVA	Catalog Number	Type 3R Weather Shield ¹	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style ²	Elec Conn ²	Primary Amps	Secondary Amps
15	ET2H15SCU	WS-02	23.00 (584.2)	18.00 (457.2)	14.00 (355.6)	205.0 (92.98)	1	5	18.1	41.7
30	ET2H30SCU	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	305.0 (138.35)	1	5	36.1	83.4
45	ET2H45SCU	WS-14	28.00 (711.2)	23.00 (584.2)	16.00 (406.4)	405.0 (183.70)	1	5	54.2	125.0
75	ET2H75SCU	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	535.0 (242.67)	1	5	90.3	208.0
112.5	ET2H112SCU	WS-30	34.00 (863.6)	28.00 (711.2)	22.00 (558.8)	805.0 (365.14)	1	5	135.0	313.0
150	ET2H150SCU	WS-10	44.00 (1117.6)	33.00 (838.2)	21.00 (533.4)	972.0 (440.89)	1	5	181.0	417.0
225	ET2H225SCU	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1325.0 (601.01)	1	5	271.0	625.0
300	ET2H300SCU	WS-11	46.00 (1168.4)	36.00 (914.4)	24.00 (609.6)	1515.0 (687.19)	1	5	361.0	834.0
500	ET2H500SCU	WS-12	65.00 (1651.0)	45.00 (1143.0)	35.00 (889.0)	2460.0 (1115.84)	1	5	602.0	1390.0

Notes:

1. Weather shields (set of two) must be ordered separately.
2. Design Styles and Electrical Connections can be found at the end of the Ventilated Distribution Transformers section.