Automation Transformers - Floor Mount - Non-Ventilated 15 kVA to 150 kVA

SolaHD encapsulated transformers are rated for hazardous locations as well as harsh industrial environments. Encapsulation and rugged enclosures protect the transformer from dust, moisture, and provide extra shock and vibration resistance. SolaHD transformers fully comply with the latest edition of the National Electrical Code.



c UL us
E361435

Features

- cULus Listed for Class I, Division 2/Zone 2 hazardous locations temperature classification T3C or T3
- UL Listed/NEMA Type 1, 2, 3R, 4, and 12 encapsulated enclosure for indoor and outdoor service
- Electrostatically shielded for quality power
- UL Class 200°C insulation system, 115°C (40°C Ambient) temperature rise under full load
- Gland plates standard for ease of conduit entry.
  - – Gland plates allow for easy cable entry into an enclosure while maintaining enclosure rating, providing easier installation and the ability to rewire or relocate existing equipment easily over the life of the transformer
  - – Available in ANSI gray painted cold roll steel for standard NEMA 1, 2 3R, 4/12 or stainless steel (4X) that offers the same or better corrosion resistance, and looks like our standard NEMA finish
- Copper terminations on all units
- Encapsulated with electrical grade silica and epoxy for industrial applications

Related Products

- Some SolaHD DC power supplies are available with Class I, Division 2 ratings or encapsulation.
- Surge Protective Devices

Certifications and Compliances

All Models

- c UL us Listed: E361435
  - UL 1561 or UL 5085-1, UL 5085-2
  - CSA C22.2 No. 47 or No. 66
  - RoHS Compliant

Accessories and Optional Design Styles

- NEMA 4X Stainless Steel Enclosures
- 50°C Ambient temperature and other temperature classifications (T4, T4A or T3B) available
- Additional configured transformer designs are available contact technical support (ex. copper, K-Factor and low temperature)
- Replacement gland plates (SGP) for moves, adds and rework are available

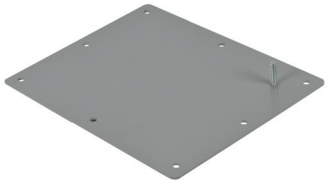
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Selection Tables: Floor Mount – Three Phase

kVA	Catalog Number Group I Rolled Steel	Height in (mm)	Width in (mm)	Depth in (mm)	Approx. Ship Weight lbs (kg)	Design Style [1]	Elec Conn [1]	Primary Amps	Secondary Amps
Group A: 480 Volt Δ Primary, 208Y/120 Secondary, 60 Hz									
15	**F2F15S**	24.34 (618.2)	17.45 (443.2)	12 (304.8)	300 (136)	6	34	18	41.6
30	**F2F30S**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	730 (331)	6	34	36	83.3
45	**F2F45BSCU**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	790 (358)	6	34	54.1	124.9
45	**F2F45BS**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	770 (350)	6	34	54.1	124.9
75	**F2F75SCU**	35.60 (904.24)	27.50 (698.5)	18.00 (457.2)	1500 (680)	6	34	90.2	208.2
75	**F2F75S**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	1700 (771)	6	34	90.2	208.2
112.5	**F2F112S**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	1800 (816)	6	34	135.3	312.3
150	**F2F150SCU**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	2200 (998)	6	34	180.4	416.4
Group B: 480 Volt Δ Primary, 480Y/277 Secondary, 60 Hz									
15	**F81F15S**	24.34 (618.2)	17.45 (443.2)	12 (304.8)	300 (136)	6	35	18	18
30	**F81F30S**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	730 (331)	6	35	36	36
45	**F81F45BSCU**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	790 (358)	6	35	54.1	54.1
45	**F81F45BS**	33.53 (851.7)	26.36 (669.5)	14.2 (368.7)	770 (350)	6	35	54.1	54.1
75	**F81F75SCU**	35.60 (904.24)	27.50 (698.5)	18.00 (457.2)	1500 (680)	6	35	90.2	90.2
75	**F81F75S**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	1700 (771)	6	35	90.2	90.2
112.5	**F81F112S**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	1800 (816)	6	35	135.3	135.3
150	**F81F150SCU**	44.10 (1120.1)	31.51 (800.1)	18.00 (457.2)	2200 (998)	6	35	180.4	180.4

Notes:
Weights and dimensions may change and should not be used for construction purposes.
1. Design Styles and Electrical Connections can be found at the end of the Non-Ventilated Distribution Transformers section.

SGP Replacements

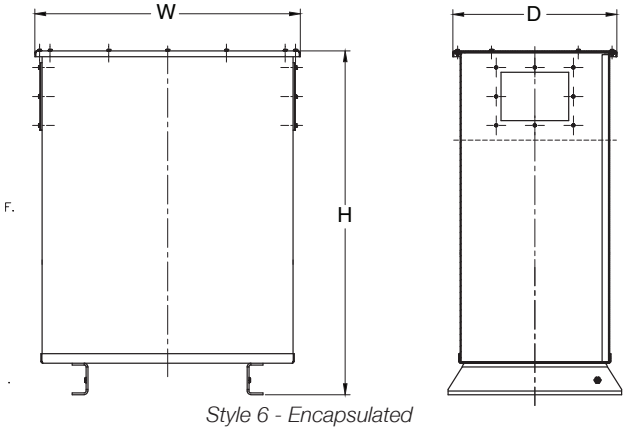




Product	Catalog Number	KVA	Description	Height in (mm)	Width in (mm)	Approx. Ship Weight lbs (kg)
Automation Transformer Floor Mount	**SGP8560**	**15**	GLAND PLATE CRS	8.5"	6"	1.3 (.6)
Automation Transformer Floor Mount	**SGP9070**	**30 – 150**	GLAND PLATE CRS	9"	7"	2 (.9)

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Design Styles

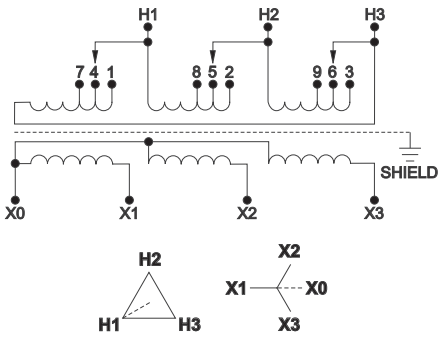


Style 6 - Encapsulated

Electrical Connections (Three Phase)

480 Δ Volt Primary
208Y/120 Volt Secondary
Taps: 1, 2.5% FCAN; 1, 2.5% FCBN

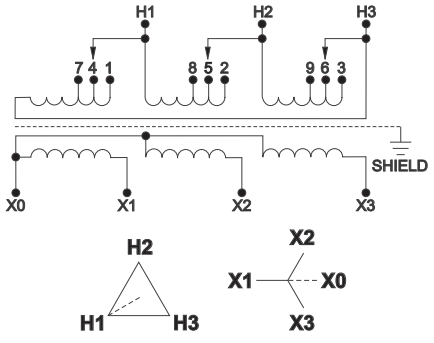
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Primary Voltage	Interconnect	Connect Lines to
492	1-H1 & 2-H2 & 3-H3	H1, H2, H3
480	4-H1 & 5-H2 & 6-H3	H1, H2, H3
468	7-H1 & 8-H2 & 9-H3	H1, H2, H3
Secondary Voltage		**Connect Lines to**
208		X1, X2, X3
120		X0-X1, X2, X3
F2 Series		

480 Δ Volt Primary
480Y/277 Volt Secondary
Taps: 1, 2.5% FCAN; 1, 2.5% FCBN

35



Primary Voltage	Interconnect	Connect Lines to
492	1-H1 & 2-H2 & 3-H3	H1, H2, H3
480	4-H1 & 5-H2 & 6-H3	H1, H2, H3
468	7-H1 & 8-H2 & 9-H3	H1, H2, H3
Secondary Voltage	**Interconnect**	**Connect Lines to**
480		X1, X2, X3
277		X0-X1, X2, X3
F81 Series		

⏚ = Earth Ground

Notes:

Connect the electrostatic shield to the equipment ground (green) or to both the equipment ground and the system ground (white). Specifications are subject to change without notice.

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