



■ Summary

SJ Magnetics 1,500 kVA three-phase, liquid-filled pad-mounted transformer with 12470V delta primary and 480Y/277 secondary. Aluminum windings, loop-feed connections, DOE efficiency, and a seven-position primary J-tap selector.

■ Product Description

The SJ Magnetics 1,500 kVA pad-mounted transformer supplies 480Y/277 power from a 12470V delta distribution system. Its delta-wye winding arrangement provides a neutral for the secondary system. Aluminum primary and secondary windings operate in mineral oil with natural oil and air cooling. The seven-position J-tap selector allows the primary connection to be matched to the supply voltage while maintaining the selected secondary voltage. The loop-feed design includes a four-position loadbreak switch and bayonet fuses backed by ELSP current-limiting fuses. Liquid level, temperature, and pressure/vacuum gauges support routine inspection, while the pressure relief, fill, and drain/sample valves provide service access.

■ Specifications

Phase	Three Phase	Transformer Type	Liquid-filled pad-mounted
Rated Power	1,500 kVA	Winding Material	Aluminum / Aluminum
Primary Voltage	12470V delta	Vector Group	Dyn1
Secondary Voltage	480Y/277	Cooling	ONAN
Temperature Rise	65°C	Insulating Fluid	Mineral oil
Primary BIL	95 kV	Secondary BIL	30 kV
Feed Configuration	Loop feed	Loadbreak Switch	4-position LBOR
Fuse Protection	Bayonet + ELSP	Tap Positions	7 positions

■ Ratings & Standards

DOE efficiency • 65°C temperature rise • Mineral-oil natural cooling

■ Common Applications

Commercial power distribution • Industrial facilities • Medium-voltage service

■ Configuration

Seven-position primary J-tap selector. Loop-feed primary connections and a grounded-wye secondary. Liquid level, temperature, and pressure/vacuum gauges; pressure relief, fill, and drain/sample valves.



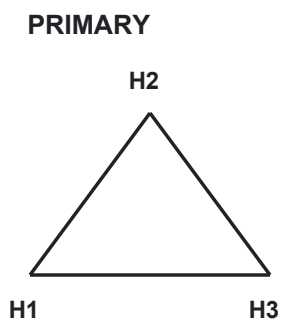
■ PRIMARY J-TAP SCHEDULE

Position	Primary voltage	From nominal	Setting
1	14,400V	+15.48%	Above nominal
2	13,800V	+10.67%	Above nominal
3	13,200V	+5.85%	Above nominal
4	12,700V	+1.84%	Above nominal
5	12,470V	0.00%	Nominal
6	12,000V	-3.77%	Below nominal
7	11,700V	-6.17%	Below nominal

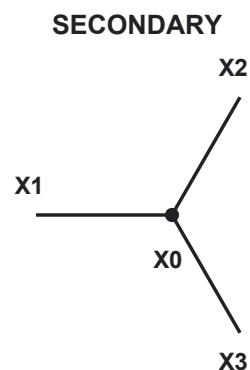
4 above / 2 below nominal; 7 positions. Tap percentages reference the selected nominal primary voltage.

De-energize the transformer before operating the tap changer.

■ WINDING CONNECTIONS



12470V delta



480Y/277

Vector group: Dyn1. Secondary X0 is the neutral. Primary H terminals receive the medium-voltage supply.

Connection symbols show winding arrangement. Use the unit connection plate for terminal location and installation.