



ERMCO

Single Phase Pole Mounted Distribution Transformer

ERMCO single phase pole mounted distribution transformers are designed and manufactured in compliance with all applicable IEEE and RUS standards. All transformers are oil filled, 65°C rise, and designed for usual service conditions per IEEE C57.12.20.

Ratings are available in 1/2 through 500 kVA with primary voltages 2.4 kV through 34.5 kV (150 kV BIL) and low voltages up to 600 volts.

Types of Single Phase Pole Mounted Transformers

- ERMCO pole mounted transformers are categorized by type and class.
 - Type identifies the protection of the transformer.
 - Class identifies the number of high voltage bushings, mounting positions, and lightning arresters when required.



Type	Class	# Lightning Arresters	# Weak Link Fuse	#External Flipper Fuse	#L.V. Breaker
Conv.	All	0	0	0	0
CSP	A	2	2	0	1
CSP	B1	1	2	0	1
CSP	B2, B3	1	1	0	1
CP	A, B1	0	2	0	1
SP	A	2	2	0	0
SP	B1, B2, B3	1	1	0	0
SP Combo	B2, B3	1	0	1	0

Class	# H.V. Bushings	# Hanger Brackets
A	2	1
B1	2	1
B2	1	1
B3	1	2



kVA and Standard Voltage Offerings

- All standard tap configurations available.
- Dual voltage available in most combinations.
- Dual voltage with taps in series position only.
- Dual voltage: Highest BIL applies to both voltages.
- Additional voltages may be available, consult with factory.
- Impedance and loss options available in most designs.



kVA	H.V.	BIL (kV)	L.V.
½	2400	60	120/240
1	4160	75	240/480
1½	4800	75	277
3	7200	95	
5	7620	95	
7.5	7970	95	
10	11400	95 or 125	
15	12000	95 or 125	
25	13200	95 or 125	
37.5	13800	95 or 125	
50	14400	125	
75	19920	125 or 150	
100			
167			
250			
333			
500			

Product Features

Tanks:

- External welds are 100% coverage for added strength and corrosion withstand.
- Lift ears allow sling lifting while the unit is still banded to the pallet.
- Tank bottom weld is recessed for added protection.

Bushings:

- Secured with grip nuts for uniform pressure.
- Tightened with torque wrenches for consistent leak free performance.
- Gaskets made of nitrile rubber for long life.

Corrosion Protection:

- Paint finish exceeds all IEEE requirements including 160in-lb impact, 2000 hour salt spray, 1000 hours QUV and 20 cycle SCAB.
- Cover band hardware is non-corrosive.
- A “coastal” tank is available with 304 stainless threaded pads, lift ears, and hardware.
- A complete 304L stainless vessel is available for severe corrosive environments.



Product Range

Types Offered	CONV	CSP	CP	SP
kVA Ratings	½-500	5-167	5-167	½-500
High Voltage	2.4-19.9 kV	2.4-19.9 kV	2.4-19.9 kV	2.4-19.9 kV
BIL	150 kV (max)	150 kV (max)	150 kV (max)	150 kV (max)
Low Voltage	600 V (max)	600 V (max)	600 V (max)	600 V (max)

Optional Product Accessories

Accessory	Default Standard	Available
H.V. Fuse	Weak Link	External flipper kit, under oil CL
L.V. Breaker	Thermal Trip <25 kVA Mag & Thermal >37.5 kVA	Magnetic & thermal trip 25 kVA, emergency overload, signal light
Arrester	Polymer Direct Connect Normal Duty Metal Oxide	Polymer, normal or heavy duty, can be brand specific, under oil MOV, LV surge arrester
Wildlife Protection	3 KV Insulated Cover	10 kV or 15 kV cover, birdguards
H.V. Bushings	Porcelain Eyebolt	Extra creep porcelain, handwheel Anti Tracking Device
L.V. Bushings	Polymer: Eyebolt ½ -100 kVA Spade 167-500 kVA	Porcelain Variety of eyebolts Variety of spades
Markings	kVA Decal	Generic or customer specific decals, bar codes, stenciling customer stock codes, serial numbering, and other markings.
Taps/Dual Voltage	External Cap Wrench Handle	External lever handle or hook stick handle, dual voltage with taps in series position only.





Optional Equipment	Conv	CSP	CP	SP
H.V. Taps	•	•	•	•
Dual Voltage	•	•	•	•
Internal Expulsion Fuse Link		•	•	
External Flipper Expulsion Fuse				•
External CL Fuse	•	•	•	•
Internal CL Fuse	•	•	•	•
Secondary Circuit Breaker		•	•	
Under Oil MOV Arrester	•	•	•	•
External Arrester	•	•	•	•

Quality and Reliability

- ERMCO is an ISO9001 certified company.
- All electrical testing is per IEEE standards.
- Other tests for control purposes include: core loop loss and exciting current, coil ratio and polarity, oil properties, and three separate leak tests.

Warranty

- 3 year warranty on CSP
- 2 year warranty on Conventional
- Coverage includes round trip transportation between the purchasers shipping dock and the repair facility.

