

Single Phase Pole Mounted Distribution Transformer

ERMCO single phase pole mounted distribution transformers are designed and manufactured in compliance with all applicable ANSI and RUS standards. All transformers are oil filled, 65°C rise, and designed for usual service conditions per ANSI C57.12.00.

Ratings are available in 5 through 250 kVA with primary voltages 2.4 kV through 19.9 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
CP	B2, B3	0	1	0	1
SP	A	2	0	0	0
SP	B1, B2, B3	1	0	0	0
SP combo	B2, B3	1	0	1	0

Class	# of 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 not available.*
 - *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.
5	2400	60	120/240
7.5	4160	75	240/480
10	4800	95	277
15	7200	95	
25	7620	95	
37.5	7970	95	
50	11400	95 or 125	
75	12000	95 or 125	
100	13200	125	
167	13800	125	
	14400	125	
	19920	125 or 150	



Tanks

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.
- The 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 are nitrile rubber for long life.

Corrosion Protection:

- The paint finish exceeds all ANSI requirements including 160in-lb impact, 2000 hour salt spray, 1000 hours QUV and 20 cycle SCAB.
- All 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.



External Tank Weld



Tank Bottom

Product Range

Types Offered	CONV	CSP	CP	SP
kVA Ratings	5 - 250	5 - 167	5 - 167	5 - 250
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	600v (max)	600v (max)	600v (max)	600v (max)

Optional Product Accessories (when specified)

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	Direct Connect Normal Duty Metal Oxide	Porcelain or polymer, normal or heavy duty, can be brand specific, under oil MOV, LV surge arrester
Wildlife Protection	3kV Insulated Cover	10 or 15kV cover, birdguards
H.V. Bushings	Porcelain Eyebolt	Extra creep porcelain, handwheel
L.V. Bushings	Polymer : Eyebolt 5-100 kVA Spade 167-250 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, taps and dual voltage not available



Bushings: Grip Nut



Paint Finish



WildLife Protection

ERMCO

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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 Arrestor	•	•	•	•
External Arrestor	•	•	•	•

Quality and Reliability

- **ERMCO** is certified to the ISO quality standard.
- All electrical testing is per ANSI 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
- Includes lightning caused failures provided the transformer was installed, protected, and operated in accordance with normal industry accepted practices.
- Coverage includes round trip transportation between the purchasers shipping dock and the repair facility.

ERMCO = Reliability + Quality + Service

...Why Not the Best?

