

Single Phase Pad Mounted Distribution Transformer

ERMCO single phase pad 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.

Types of Single Phase Pad Mounted Transformers

Type 1 and Type 2:

ERMCO's full-size product line has a wide variety in options and ratings. These comply with ANSI Standard C57.12.25.

TrimLine:

Ideal for customers seeking lower cost and smaller size without sacrificing operating room. The TrimLine follows the ANSI Type 2 design except the distance between HV bushings is 9 inches (ANSI is 10 inches at 8.3 kV).

MicroTrim:

Offers the lowest cost and is the most compact padmount in the ERMCO line.



Type 1



Type 2



TrimLine



MicroTrim

Product Range

Types Offered	Type 1	Type 2	TrimLine	MicroTrim
kVA Ratings	5 - 167	5 - 167	5 - 50	5 - 25
High Voltage	2.4 - 19.9 kV	2.4 - 19.9 kV	2.4 - 8 kV	2.4 - 8 kV
BIL	150 kV (max)	150 kV (max)	95 kV (max)	95 kV (max)
Low Voltage	600v (max)	600v (max)	600v (max)	600v (max)



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	240/120
7.5	4160	75	480/240
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	



Hood Removed



Bushings: Jam Nut



Cover Powder Coating Process

Product Features

Tanks:

- Lifting provisions are stainless steel pads recessed into the tank side.
- Hood is attached with stainless steel hinges, and requires no special tools for removal.
- Recessed locking provision has a handy grip for opening the hood.
- Locking nut and backing plate are 300 grade stainless steel for long service life.

Bushings:

- Externally clamped with stainless steel studs and plated hardware.
- Internal leads are sized for bushing extraction in times of maintenance or repair.

Corrosion Protection:

- 100% of the padmount receives a paint finish that exceeds all ANSI requirements including 160 in-lb impact, 2000 hour salt spray, 1000 hours QUV and 20 cycle SCAB.
- **ERMCO** developed a method to cure powder paint on the padmount tank cover without damaging the transformer internals giving **ERMCO** the only true 100% powder paint coverage.
- For added protection, extra paint thickness is applied around the base.

L.V. Breaker:

- Allows disconnecting secondary service without interrupting the primary loop or breaking load with the Bay-O-Net.
- Also protects transformer from damage due to secondary short circuits and overloads.

Bonus Features

(Standard on all ERMCO Padmount Transformers)

- Ground connectors for #8 - 2/0 wire
- LV stud bushing jam nuts
- Drip shield when Bay-O-Net fuse assembly supplied
- Corrosion resistant brass plugs for the oil level and drain fittings

Equipment Options

(Consult Optional Equipment Table for availability within transformer type)

Accessory	Default Standard	Available
H.V. Fuse	Bay-O-Net with drip shield	Weak link, valve Bay-O-Net, CL fuse (dry well or internal)
L.V. Breaker	None	Magnetic or thermal trip, emergency overload
Arrester	None	Internal under oil HV arrester, LV surge arrester
H.V. Bushings	Wells with fixed stud	Removable stud wells, wells & inserts, integral load break bushings
L.V. Bushings	Stud with jam nut	Stud and spade, integral spade, variety of connectors
Markings	kVA decal	Generic or customer specific decals, bar codes, stenciling, customer stock codes, serial numbering, and other markings
Taps/ Voltage	Cap wrench handle	Lever handle, or hook stick Dual handle, dual voltage and taps not available
Nameplate	Laser etched aluminum	Stainless steel, special information; bar code, material stock code, or practically any purchaser data
Tank	Mild steel (green color)	Gray color, "coastal" with mild tank and 300 stainless for the hardware and wear points, full 304L stainless
Fittings	1/2" drain and fill plug	1" plugs, valves, gauges



L.V. Breaker



Drip Shield



Poly Pad

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Optional Equipment	Type 1	Type 2	TrimLine	MicroTrim
H.V. Taps	•	•	•	•
Dual Voltage	•	•	•	2:1 Ratio Only
Internal Expulsion Fuse Link	•	•	•	•
Bay-O-Net Expulsion Fuse	•	•	•	•
Full Range CL Fuse (Dry Well)	•	•		
Partial Range CL Fuse (Internal)	•	•	•	•
Secondary Circuit Breaker	•	•	•	
Under Oil MOV Arrester	•	•	•	•
On-Off High Voltage Switch	•	•		
4 Position High Voltage Switch	•			
Removable Stud Bushing Wells	•	•	•	•
Load Break Bushing Inserts	•	•	•	•
Integral Load Break Bushings	•	•	•	•
L.V. Insulated Stud Bushings	•	•	•	•
L.V. Bushing Spade Terminals	•	•	•	•
Poly Pad	•	•	•	•

Quality and Reliability

- **ERMCO** is certified to the ISO quality standard.
- All electrical testing is per ANSI standards.
- Many other tests are made for control purposes such as: core loop loss and exciting current, coil ratio and polarity, oil properties, and multiple oil leak checks.

Warranty

- All **ERMCO** padmounts carry a full 2 year warranty.
- 3 year warranty on transformers with secondary breakers.
- 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 purchaser's shipping dock and the repair facility.

ERMCO = Reliability + Quality + Service

...Why Not the Best?



Quality Assurance