



Howard Industries, Inc.
ISO-9001 Certified

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Micro-Power

0.5 through 3 KVA

Oil-Filled Pole-Mounted Distribution Transformer

Howard Industries Micro-Power is a compact and light-weight oil-filled pole-mounted distribution transformer designed to serve small, isolated loads. Typical applications include capacitor banks, reclosers, station control power, billboards, microwave and cellular tower sites, water pumps, security lights, streetlights, traffic signals, and railroad signals. Micro-Power transformers provide an economical alternative to larger standard-size transformers in a lightweight package starting at under 100 pounds.

Ratings

- 0.5, 1, 1.5, or 3 kVA (65° C rise)
- High-voltage: 2400/4160Y through 19920/34500GrdY (2 HV bushings) or 4160GrdY/2400 through 34500GrdY/19920 (1 HV bushing)
- Low-voltage: 120 (1 or 2 LV bushings), 120/240 (3 LV bushings), 240 (1 or 2 LV bushings), 240/480 (3 LV bushings), or 277 (1 or 2 LV bushings)

Standard Features

- Mild steel tank, cover, and clamp ring
- Tough powder paint finish resists abrasion and corrosion
- 10 kV minimum insulation on cover and clamp ring
- Continuously welded hanger brackets and lifting lugs for safety and corrosion resistance
- Corrosion resistant hardware on clamp ring
- Recessed tank bottom for scuff protection
- Shell-type core/coil construction
- Wound core construction with step-lap joints for high efficiency
- Porcelain high-voltage bushing(s) with tin plated bronze eyebolt terminal(s)
- Molded polymer or porcelain low-voltage bushing(s) with tin plated bronze terminal(s)
- Low-voltage neutral ground strap (on transformers with one HV bushing)
- Visible cover ground with disconnect
- Tank ground provision
- Tank ground connector (on transformers with one HV bushing)
- Automatic pressure relief device
- Mineral oil dielectric coolant with

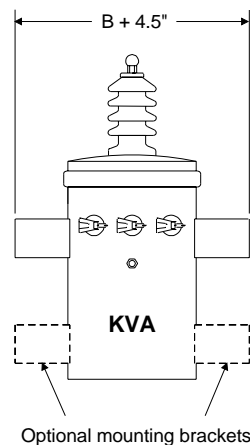
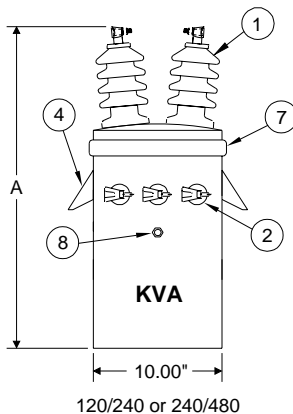
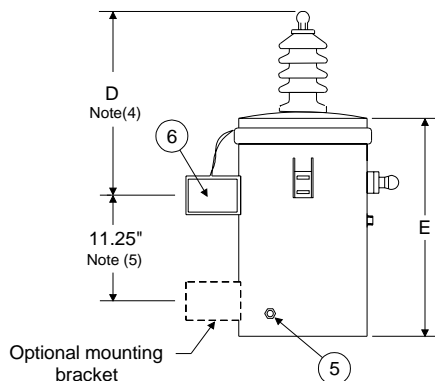
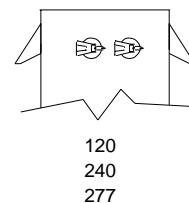
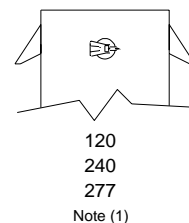
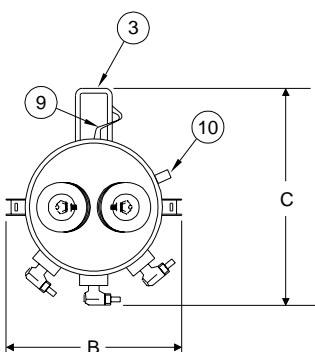
oxidation inhibitor

- KVA decal on tank
- Internal oil level mark
- Laser engraved anodized aluminum nameplate

Optional Features

- Five-pin low-voltage receptacle
- External MOV lightning arrester or mounting provisions only
- Wildlife protection
- Tank ground connector
- Low-voltage neutral ground strap

1. HV bushing (1 or 2 bushings)
2. LV bushing (1,2 or 3 bushings; or 5-pin connector)
3. Mounting bracket, ANSI Type A (1, 2, or 4 brackets)
4. Lifting hook (2)
5. Tank ground nut
6. Nameplate
7. Cover clamping ring
8. LV neutral ground nut
9. Cover ground strap
10. Automatic pressure relief device



BIL	Dimensions				
	A	B	C	D Note (4)	E Note (6)
60-95	26"	14"	17"	8"	17/19"
125	26"	14"	17"	12"	17/19"
150	31"	16"	19"	12"	22"

KVA	Approx. Weight (Lbs.)		
	60-95 KV BIL	125 KV BIL	150 KV BIL
0.5	95	100	130
1.0	95	110	140
1.5	100	115	140
3.0	125	125	160

NOTES:

- 1) Five-pin low-voltage receptacle also available
- 2) External surge arrester and internal expulsion fuse available as options
- 3) Low-voltage circuit breaker not available
- 4) Dimension "D" may be less than indicated if lower mounting bracket(s) requested
- 5) Spacing may be less than 11.25" if tank height (Dimension E) is less than 19"
- 6) For BIL < or = 125 kV, tank height (Dimension E) may vary as a function of HV rating.