



No one understands the mining industry like Becker / SMC, and no one understands the unique requirements of mine duty transformers like Becker / SMC.

- **Specification:** Custom built low profile transformers per customer specified voltage, KVA and temperature rise.
- **Low loss designs:** When specified, transformers are designed with low losses for reduce operating cost and heat generation.
- **Coil construction:** Coils are wound with copper windings and bus for superior short circuit stability. Coils are insulated with 220C Nomex insulation for proven dielectric protection. When requested, epoxy end caps are provided to further seal the ends of each coil for additional environmental protection.
- **Cores:** Precision cut and stacked Butt lap or Miter cores to reduce losses caused by core gaps.
- **Environmental protection:** The assembly is sealed from moisture with standard dip and bake in polyester varnish. Vacuum pressure impregnation (VPI) is also available for improved varnish penetration.
- **Testing:** Each transformer is tested per ANSI C57.12.91 to insure a quality product with maximum life expectancy.
- **K-Factor:** K Rated transformers are available for non sinusoidal loading with high harmonic content.
- **Faraday shielding:** When specified, faraday shielding is available for electrical noise mitigation.