



Duratrans™ Transformer

- Proven Harsh Environment Technology
- Coil Distortion Prevention (CDP)
- Corrugated Duct Technology
- OVAL Technology



Duratrans [™] Transformer

Description

Traditional manufacturers use out of date winding techniques and technology for the most critical power delivering part of your equipment. Becker Mining has developed cutting edge technology with it's latest patent pending innovation called **Duratrans**[™]

The Duratrans [™] Transformer invention is intended to address the challenges specific to the mining environments. These challenges are met by producing a wound transformer coil which results in a mechanically robust construction preventing winding displacement and sealing out all environmental contaminants. The NEW Industry Standard in Mining Power Distribution



What Makes Duratrans™ Unique?

The technology utilized to produce the industry leading, patent pending, transformer design.

Proven Harsh Environment (HET) is a proprietary process which seals out contaminant and builds superior strength to the transformer.

Coil Distortion Prevention (CDP) technology prevents outward coil distortion via a specifically reinforced material on the outside layer.

Corrugated Duct Technology (CDT) promotes more air flow and transformer efficiency.

OVAL Technology provides superior short circuit strength.





















Duratrans[™] VS Standard Dry Type Comparison of Thermal Performance

	Standard dry type Transformer	Duratrans™ Transformer	Improvement in Thermal performance
Full load temperature rise at similar watts per square inch of cooling surface	148.7° C	129.3° C	15%



Tested per ANSI C57.12.91

This chart shows the thermal performance of the Duratrans[™] Transformer compared to the Standard Dry Type Transformer. This improvement demonstrates the Duratrans[™] transformer's superior ability to handle thermal shocks from sudden peak overloads and cyclic loading, making it ideal for rectifier and variable frequency drive applications.





DURATRANS™

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276-646-3296

Average sound level, describes three-phase high voltage transfomers								
Equivalent two- winding [kVA]	Sound Level	Total Weight (lb) IP00/IP23	Uk (%)	Length [inches] IP00/IP23	Width [inches] IP00/IP23	Height [inches] IP00/IP23		
151-300	60	3,144/3,458	6.0	57.91/71.96	32.28/61.03	57.47/76.78		
301-500	62	4,015/5,019	6.0	61.41/81.88	33.46/62.21	63.38/84.65		
501-700	64	4,684/5,577	6.0	61.41/81.88	33.46/62.21	63.38/84.65		
701-1000	65	5,577/6,358	6.0	64.96/81.88	38.57/62.21	69.29/86.61		
1001-1500	66	6,470/7,920	6.0	66.01/91.72	38.57/62.21	74.01/94.48		
1501-2000	68	7,696/9,146	6.0	69.55/91.72	38.57/62.21	75.59/94.48		
2001-3000	70	9,259/10,374	6.0	70.73/104.71	41.32/70.08	83.46/107.87		
3001-4000	71	11,043/12,502	6.0	74.27/113.37	51.16/70.08	90.94/119.68		

Becker Mining America

PO Box 940 Barboursville, WV 25504 United States of America

т (304) 733-7204

F (304) 733-4541

