

B & B Benchmark

B & B Electric Motor Co. Wichita, Ks.

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THE NEWS FROM B & B

We want to thank our many customers who attended our second annual customer appreciation open house on March 24, 2006. We gave away ten door prizes provided by our suppliers and compliments of B & B Electric Motor Co., as well as great food and drinks for our customers.

Our President Robert Giesen has been busy providing technical training seminars for our customers. He has presented information about the Application and Maintenance of Rotating Electrical Machinery to approximately 150 service technicians. He will again be providing a technical seminar on Thursday May 25, from 3 to 6:30 pm. If you have service technicians that need training, please call our office as we still have openings for more trainees. The cost for the seminar is \$10.00, which covers educational materials, food and drink, and room rental. He has provided in-plant training at the Coleman Co., Plumbers and Pipe Fitters Local Union 441, and for P.G.I. Twine Plant in Kingman, Kansas. In-plant seminars can be provided for your company if you have several techs to be trained and a meeting room to accommodate the seminar.

WHO'S WHO AT B & B

We want to introduce you to a familiar voice on the phone when calling B & B Electric Motor Co. Edwin Perry became an employee of B & B about one and one-half years ago. He is a graduate of Friends University, and spent several years repairing rental power tools and other rental equipment for one of our local building centers before pursuing his own business. He was a self employed professional photographer for several years. He came into our business to purchase some personal parts and started visiting with the owner of the company and they began talking about the need for a technician. He showed interest and responded with a resume and the rest is history. Edwin worked as a technician and when we needed more help to work on Servos, he attended a special seminar and was trained to repair Servo Motors to assist our shop foreman when he cannot keep up with the demands of repairs. When we had an opening for an accountant he said that he had experience in accounting and would like to be considered for the position.



After some discussion with our General Manager the owner decided to fill the position with Edwin. He was trained on the operations of our accounting system and pursued his new responsibilities. Having an accountant that understands electric motors and repairs makes him more knowledgeable when the customer calls on the phone. He is able to forward your call to the proper employee to best serve your requests. Edwin is a musician and plays for several church services each week and is an instrumentalist in a local swing/dance band. In the summer he enjoys the outdoors and jet skiing.



B & B Electric Motor Co. employees are cross trained to do many technical tasks and repairs. They are very talented and well educated employees.

The company as a whole has very low turnover of employees. The staff is the most knowledgeable and highest skilled in the region. The quality of workmanship is second to none in our industry. When others fail we do the job right.

PROPER GROUNDING OF MOTORS

Over the years we have seen many electric motor failures due to improper grounding of electrical equipment. Poor grounding can cause premature winding failures in A.C. and D.C. motors as well as bearing failures. It is very important to have good grounding on any motor running on a VFD or Vector Drive. What actually happens when a motor is not properly grounded, is the motor becomes like a large capacitor and has to have a means to discharge the stray currents in the stator case or field case. When you have poor grounding, you can have higher circulating currents in the rotor causing electrical discharge through the bearings and bearing failures. Poor grounding can cause electrical discharges through the insulation system of an alternating current motor leading to insulation breakdown and the winding going to ground. This usually happens in the slot section arcing to the laminations or at the end of the end coils arcing to the tooth iron. On a direct current motor you can have arcing from the field coils or interpoles to ground. The armature can also arc from the commutator to the shaft and arc through the bearings. On a D. C. motor when arcing at the commutator happens it appears it could have had A. C. current in the motor but in many cases the arcing is due to poor grounding. Poor grounding can also cause insulation failure in the armature winding. All types of electrical equipment needs to be properly grounded. Make sure your equipment has a good grounding source, preferably with a ground wire going back to the main grounding of your facility. cont. p3

B & B

Electric Motor Co.

332 Lulu St.
Wichita, Kansas

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PROPER GROUNDING CONT.

When you have a piece of equipment to be installed, be sure the mounting supports are scraped clean when they are mounted to their mating surfaces. Many times electric motors and electrical equipment have painted surfaces at their mounting points. Thoroughly clean the mounting areas before mounting equipment. Improper grounding of equipment can cause electrolysis within your facility as well as premature burning out of light bulbs, ballasts, transformers, electronic drives and electronic equipment. Be sure you have ground wiring large enough to carry off stray currents from your electrical equipment. With the recent dry weather there have been reports of grounding problems because the ground stake does not have good contact to the earth ground. It may be necessary to drive another ground stake that is longer and then make a new ground connection. The changing of your grounding should be done by a licensed Electrical Contractor. Poor grounding can also cause electrical shock to your employees. **Be Safe.** Always be sure every piece of electrical equipment is properly grounded for the longevity of the equipment and for a safe environment for your employees.

As a Reminder

**B & B Electric Motor Co. is a
Full Service Industrial Service Center**

- We do service calls to make on site repairs or removal of equipment for service and repairs in our well equipped service shop.
- We do complete rebuilding and rewinding of **A.C. & D.C.** electric motors to **4000 Hp.**
- We rebuild all types of industrial pumps.
- We **do not** outsource any machining operations or welding.
- We have **qualified technicians** to perform the rebuilding and repairs, maintaining the highest **quality of workmanship.**