

## Grain Conditioning Engineering Bulletin

### Motor Control Application Revision for Three Phase Axial and Inline Centrifugal Fan Models

All axial and inline centrifugal fans require a uniform support of the fan legs to assure smooth operation. Fans that are improperly supported can encounter the condition of the contactor points chattering. When the motor is energized an impact force is present, which can result in the contactor points opening and closing rapidly. While the fan always needs to be mounted properly, an IEC contactor has been implemented in manufacturing for three fan models to reduce the incidence of contactor chatter.

Motor controls for all three phase axial and inline centrifugal fan models have been changed to incorporate IEC contactors as a replacement for definite purpose contactors. The IEC contactor incorporates the auxiliary switch for all contactor sizes. Therefore, when ordering a replacement contactor the IEC contactor is all that is required to be ordered. The single phase models of the axial and inline centrifugal fans will continue to use the definite purpose contactors.

For all the three phase axial and inline centrifugal fan models, the IEC contactors will mount in the same control enclosure as was utilized with former definite purpose contactors. When the need arises, contact Customer Service to obtain the IEC contactor that is used as a replacement for the definite purpose contactor.

FOR PROPER OPERATION OF AN AXIAL OR INLINE CENTRIFUGAL FAN, THE BASE OF THE FAN MUST BE FULLY SUPPORTED ON A LEVEL PAD. THE FAN SHOULD NOT BE ANCHORED TO THE PAD BUT ALLOWED TO FLOAT ON THE PAD.

