

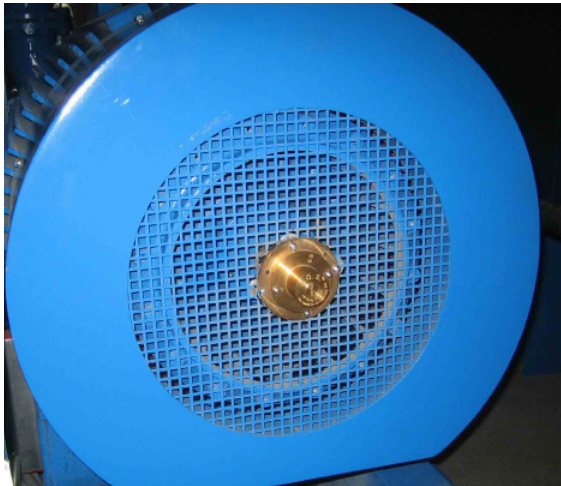
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SGS™ CR SERIES PRODUCTS

shaft grounding systems, inc.

The CR series system is designed to mount on the end of a shaft such as the opposite drive end (ODE) of single shafted horizontal motors that have solid shafts such as those used on fans or pumps that do not have ODE accessories such as encoders. This requires a suitable flat surface on the ODE of the motor and no existing hole in the ODE motor shaft to permit the use of the standard 1/4 inch UNC or 3/8 inch UNC rotor attachment bolt. If a hole exists, the diameter and thread of the hole must be specified so that the correct custom machined mounting arrangement can be supplied. Custom adaptation may affect price.

These kits fit motors with a hole in the ODE endbell surface less than 2.0 inches diameter on motors less than 100 hp and less than 3.25 inches diameter on motors between 100 and 200 hp and the distance from the ODE end of the motor shaft to the outside surface of the motor between 0.0 inch and less than 2.0 inches on motors less than 100 hp and 4 inches on motors between 100 and 200 hp.



SGS™ CR Series end-of-shaft mount on a motor in a computer chip plant.

The unit requires 4 inches of clearance at the ODE end of the motor. It is recommended that approximately 7 inches of clearance from the ODE end of the motor be allowed for easy access for infrequent maintenance.

Installation requires access to remove the ODE endbell or fan cover and to drill and tap the ODE of the motor shaft, fan cover or endbell. This can be done in the field with hand held tools. The alignment tool is designed to reduce installation time and ensure proper alignment of the SGS™ rotor and body.

The SGS™ patented CR shaft grounding system is designed to control shaft-to-frame capacitive discharge through bearings by providing a single, low impedance pathway from the shaft to the frame. These systems are not explosion proof rated. If eddy currents are present, (which, in our experience, is unlikely except in AC motors over 200 hp and/or when rpm is less than or equal to 1200) and no motor bearing is insulated, then two shaft grounding systems should be installed to pass the eddy current around both motor bearings while also controlling the capacitive discharge. If the ODE motor bearing is insulated to control eddy currents, one shaft grounding system can be used at the Drive End non-insulated bearing to control the shaft-to-frame capacitive discharge. A single insulated bearing will not control capacitive discharge through the non-insulated bearings. Please call to discuss applications where both eddy currents and capacitive discharge are believed to be present.

Generally, these systems can run with no attention for as long as ten years (on 1800 rpm motors) before maintenance is needed. This maintenance can be made on the run. These kits can be installed in field with hand held tools without dismounting or uncoupling the motor.

SGS™ patented shaft grounding systems are available for many applications including AC and DC motors, tachometers, resolvers, encoders, line shafts and specialty applications such as hollow shafted motors.