Motor Enclosures

ENCLOSURES — Most applications can utilize open drip-proof motors; other enclosures are listed. For information purposes, the various enclosures are defined below.

OPEN, DRIPPROOF — Same as open, except the construction of motor prevents the entrance of drops of liquid or particles falling on the motor at any angle not greater than 15 degrees from vertical.

TOTALLY-ENCLOSED — A motor so constructed as to prevent free exchange of air between the inside and outside of the motor case, but not air-tight.

TOTALLY-ENCLOSED, NON-VENTILATED (TENV) — A totally-enclosed motor of sufficient size and mass to permit the necessary heat dissipation to eliminate the need for external cooling.

TOTALLY-ENCLOSED FAN-COOLED (TEFC) — Basically a TENV motor which has an external fan to blow cooling air over the motor. The additional cooling eliminates the necessity of a more costly oversized TENV motor. NOTE: TENV and TEFC construction are equal in all respects regarding application, temperature capabilities and performance.

TOTALLY ENCLOSED, BLOWER COOLED (TEBC) — A totally enclosed motor constructed with a fan on the opposite end of motor shaft designed to blow cooling air over the motor. The fan is powered separately from the motor to provide constant air flow whether the motor is running or stopped.

EXPLOSION-PROOF — A totally-enclosed motor designed and built to withstand an explosion within it and/or to prevent ignition of the atmosphere surrounding it. These motors may be either TENV or TEFC as determined by the design and the manufacturer. All are U.L. listed and bear a U.L. label indicating the class of hazardous atmospheres in which the motor may be operated. All Boston Gear explosion-proof motors are nameplated Class I Group D and Class II Groups F&G.

WASHDOWN — Totally enclosed motors, either TENV or TEFC; that are constructed to withstand washdown requirements.

BISSC — Motors that have the Baking Industry Sanitation Standards Committee certification.