

## HIGH PERFORMANCE TESTED & MANUFACTURED FOR AUSTRALIAN CONDITIONS

FRAMES D80 - 355M Totally Enclosed Fan Cooled  
Horizontal Foot Mounting, Flange Mounting, Foot/Flange Mounting  
Ranging 0.55kW - 315kW  
Higher ratings available on application  
On line complete routine tests are carried out on every motor.



### RATINGS & STANDARDS

#### Supply:

Standard Voltage is 380-415 V, 3 Phase 50Hz, other voltages can be supplied on request. Star connected 3kW or less, Delta 400V / Star 690V for 4kW and above.

#### Enclosure:

IP56 TEFC totally enclosed with external fan and optional IP ratings available. Cooling method to AS 1359.

#### Duty Rating:

All motors are continuously rated type - S1

#### Ambient & Altitude:

Motors are designed to operate in an ambient temperature of -10°C to 40°C.  
Motors are designed to operate at a maximum of 1000 metres above sea level.

#### Dimensions & Performance:

REM X EF Series motors are designed and manufactured to AS/NZS 1359, IEC34 & IEC72. REM X EF Series electric motors fully comply with the Minimum Energy Performance Standard (MEPS) requirements which are set out in AS/NZS 1359.5-2000.

#### Inverter Duty:

REM X EF Series motors are suitable for inverter duty.

#### Direction of Rotation:

All standard motors are suitable for operation in either direction of rotation.

#### Mounting:

Standard Foot Mount - B3 (IM1001), Foot & Flange Mount - B35 (IM2001), Flanged Mounted - B5 (IM3001), Foot and C Face Flange - B34 (IM2101), C Face Mounted - B14 (IM3601).

### CONSTRUCTION

#### Frames and Endshields:

Endshields and Stator are constructed with cast iron offering excellent strength and corrosion immunity. The REM X EF Series design offers close tolerances, rigid alignment with minimum vibration. Motors meet limits of vibration severity set out in AS 1359.114-1997 Level N (normal) values related to rotating machinery measured in soft suspension.

#### Cooling & Ventilation:

Polypropylene fans are fitted as standard, optional metal fans available. The fan cowl is manufactured with steel, providing optimum fan protection. Frames and endshields are cast with cooling fins for high air flow, providing low temperature rise and low noise level.

#### Bearings and Lubrication:

Standard SKF metric ball bearings and roller bearings are used in the REM X EF Series. Pre-lubricated bearings are standard on frames 132 and less, on-line grease relief systems are standard on frames 160 and above which allows motors to be greased via regreasing nipples.

#### Insulation and Windings:

Stator laminations are manufactured with high quality insulated electromagnetic steel for high efficiency. High grade insulated copper wire is used for stator winding, providing a varnished and baked winding capable of withstanding heat, oil and moisture.

#### Shaft & Rotor:

Standard shaft and key lengths are provided complete with drilled and tapped holes. Rotor cages are constructed with high grade die cast aluminium, adjusted to maintain balance allowing motors to run smoothly with minimum vibration.

#### Terminal Box:

Rotatable in 90° increments, terminal boxes are rugged cast iron, diagonally split to ensure easy access and manufactured to Australian Standards. Boxes are positioned on the top when viewed from the drive end. Conduit entry, terminal board and earth terminal provided within the terminal box.

#### Finish:

Rust-proof coating applied to all inside surfaces. Outside exterior is painted with a rust base and a royal blue lacquer surface finish