



Smart solutions.
Strong relationships.

Crusher Duty

Three Phase LV AC Induction Motors



We put all our energy into saving yours !

CRUSHER DUTY MOTORS

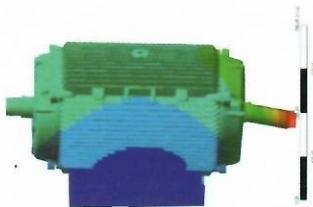
To meet all demanding requirements of crushing industry, CG has designed crusher duty motors. Our crusher series is designed with safety factor 5 and built with a special grade of casting and shaft which provides higher durability and great resistance to impact.

CG's Crusher duty motors are specially designed for stone crushing application suitable for:

- Cone crusher
- Gyratory crushers
- Jaw crusher
- Roller crushers
- Impactors
- Pulverisers
- Others

KEY FEATURES AND BENEFITS

Built for extreme environment



Stator feet have more strength to counter high shock and vibration. It not only increases reliability for crusher application but also provides easier alignment on installation.

Engineered for high impact load



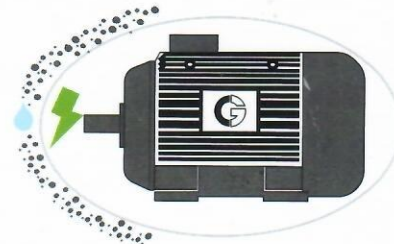
Higher grade and special design of shaft eliminates the chances of failure due to high impact loads. Improved design of shaft ensures less stress concentration at DE side.

Reliable and Rugged



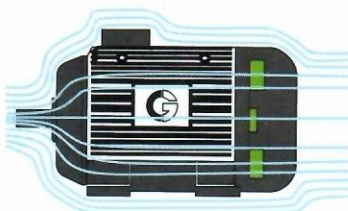
The bearings are designed and engineered for continuous, reliable performance and easy maintenance. For frame 280 and above, Roller bearings with superior load capability are offered as standard on the drive end for extended better life.

Excellent ingress protection



As crusher applications involve exposure to dusty environment, DE side oil seal ensures excellent ingress protection against dust and water. Thus prolonging life of motors and reduces the unnecessary downtime.

Better cooling



Specially designed metallic fan in the motor ensures better cooling. Metallic fan has more stable aerodynamic profile providing extended life as compared to plastic fans.

Easy accessibility



Improved design has terminal box on top for easy connection. For an easy installation purpose, cast iron split terminal box is given for higher frame. Aluminium box is given for 80 to 132 frames.

CRUSHER DUTY

SPECIFICATION

Crusher duty motors

Range	
Output	0.55 kW to 600 kW
Frames	IEC 80 to IEC 450
Poles	4,6,8,10



Specification

Specification	Standard Product	Option
Frame sizes	IEC 80 - IEC 450	-
Enclosure	IP55	IP56, IP65, IP66
Mounting option	Foot (B3)	Flange (B5), Face (B14)
Terminal box position	TOP	LHS, RHS
Voltage	Upto 3kW 415V λ Above 3kW 415V Δ	other on request
Frequency	50 Hz	60 Hz
Cooling	IC411	IC410
Bearings	Frame IEC 80 - IEC 250 : Ball bearings Frame IEC 280 - IEC 450 : Roller bearings	
Insulation	Class F	Class H
Temperature rise	Class B	Class F
Paint colour	Light gray (631 IS-5)	other on request
Fan cover	Steel	-
Gel coat	IEC 80 to IEC 450	80-132
Anti condensation heaters	IEC 280 to IEC 450	80-250
Inverter Duty (with derate)	Variable Torque: 10:1, Constant Torque: 2:1	Alternative speed range
Ambient temperature	- 20°C to + 50°C	- 40°C, up to 60°C

The above specification and options give a brief summary of features available for crusher duty motors.
For a full listing of optional features, please contact CG sales.

