

GENNEXT Make Induction Brake Motor - Technical Datasheet

General Specifications

Brand: GENNEXT

Motor Type: Three-Phase Squirrel Cage Induction Motor with Electromagnetic Brake

Power Output: 2 HP (1.5 kW)

Voltage: 415V AC

Frequency: 50 Hz

Current: 2.2 A

Speed: 1440 RPM (4-pole)

Frame Size: 80

Mounting Type: Flange Mounted

Enclosure Protection: IP55 (Dust and Water Jet Protected)

Insulation Class: F

Cooling Method: IC411 (Surface Cooling with External Fan)

Duty Cycle: S1 (Continuous Duty)

Brake Specifications

Brake Type: Electromagnetic Disc Brake

Brake Voltage: Typically 190V DC (via rectifier)

Braking Torque: Approximately 10-12 Nm (for 2 HP motors)

Brake Operation: Failsafe (Brake engages when power is cut)

Mechanical Details

Shaft Diameter: 19 mm

Shaft Length: 40 mm

Keyway: 5 mm width, 22 mm length

Overall Length: Approximately 400 mm

Weight: ~25-30 kg

Mounting Holes: 4 x M10 threaded holes on 100 mm x 125 mm base

Performance Characteristics

Efficiency: ~85% (Estimated for 2 HP motors)

Power Factor (Cos phi): 0.85

Starting Current: 6-7 times the rated current

Noise Level: <65 dB at 1 meter

Vibration Level: Compliant with ISO 2373 standards

Standards & Compliance

Manufacturing Standards: IS 325, IEC 60034

Protection Class: IP55

Insulation Class: F (with Class B temperature rise)

Cooling Method: IC411