

## GE Transportation

# Drilling Motor Standard Specification

Model Number: 5GEB22D4-L  
(Land Features)

### Description

GE 1150 HP (858 kW) AC drilling motor

### Type

Horizontal, splash-proof fully guarded (IP23), **blower ventilated**

### Ratings

Maximum continuous power: 1150 HP (858 kW), 7550 lb-ft (10240 Nm), 1120 AAC,  
800 to 1550 rpm at 587 VAC; 800 to 2000 rpm at 640 VAC (motor terminal voltage)

Intermittent duty cycle: 1400 HP (1044 kW), 9200 lb-ft (12475 Nm), 1380 AAC, 587 VAC,  
and 800 rpm, (120 sec. on – 90 sec. off)

Maximum RPM: 3000

Temperature rating: 110°C rise at 45°C ambient (1150 HP, 858 kW)  
100°C rise at 55°C ambient (1075 HP, 782 kW, 1048 AAC)

### Features

- 6-pole stator with form wound windings.
- Copper alloy rotor bars and end rings.
- Class H insulation, robotically taped, Mica-Kapton system.
- Insulated non-drive end bearing.
- **Oversized shaft extension & hub** for high-tension radial loads. High strength 4340 alloy steel shaft.
- Painted steel universal (field convertible from A to B side) main connection box with bus bar connections for main cable terminations. Terminal points for RTD, winding heaters & pressure sensor connections. Connection box can be specified to be mounted on left "A" side or right "B" side of motor as viewed from non-drive end of motor.
- (6) RTDs, 100-ohm platinum, two per phase embedded in stator slots and wired to main connection box.
- Air pressure sensor – Explosion Proof
- Auxiliary lockout switch – Explosion Proof
- Blower assembly: 15HP / 460 VAC / 60 Hz, 40°C ambient, Explosion Proof blower motor, meets or exceeds 3000 scfm of required ventilation air. Hood type, IP23, 5GE752 style air intake design
- Bottom discharge IP23 air outlet duct assembly (AODA)
- 400-watt tape heaters (200-watts on each end of motor), wired to main connection box, connected at 240V and field convertible to 120V
- Approximate weight: 6400 lb., 2903 kg.

