

GE Transportation

Drilling Motor Standard Specification

Model Number: 5GEB28A1-L
(Land Features)

Description

GE 1500 HP (1118 kW) AC drilling motor

Type

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

Ratings

Maximum continuous power: 1500 HP (1118 kW), 8750 lb-ft (11863 Nm), 1360 AAC, 577 VAC, and 900-1200 rpm

Intermittent duty cycle: 1830 HP (1365 kW), 12000 lb-ft (16270 Nm), 1740 AAC, 577 VAC, and 800 rpm,
(60 sec. on – 45 sec. off)

Maximum RPM: 3000

Temperature rating: 110°C rise at 45°C ambient (1500 HP, 1118 kW)

100°C rise at 55°C ambient (1425 HP, 1063 kW, 1289 AAC)

Features

- **Roller bearing designed for direct coupled loads only - not for use with radial loads**
- 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
- Single shaft extension & hub. High strength 4340 alloy steel shaft
- Painted steel main connection box with bus bar connections for main cable terminations. Terminal points for RTD & 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: 20 HP / 460 VAC / 60 Hz, 40°C ambient, Explosion Proof blower motor, meets or exceeds 3900 scfm of required ventilation air. Hood type, IP23, 5GE752 style air intake design
- Bottom discharge IP23 air outlet duct assembly (AODA)
- Space heater: 100-watt 120/240V Wired to Stainless Steel Ex e II T6 termination box
- Shaft height and mounting feet dimensions are the same as 5GE752. Shaft diameter and hub are larger
- Approximate weight: 8550 lb., 3878 kg

