

GE Transportation

Drilling Motor Standard Specification

Model Number: 5GEB28A1
(Offshore Features)

Description

GE 1500 HP (1118 kW) **ATEX certified** AC drilling motor.

Type

Horizontal, splash-proof fully guarded (IP44), **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
- ABS certification with ABS stamped shaft
- Stainless steel main connection box is IP56 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 switch - ATEX certified  II 2 G Ex d IIC T6
- Blower assembly: 18 kW / 460 VAC / 60 Hz Ex d IIC T4 motor, meets or exceeds 3900scfm of required ventilation air. Dual louver IP44 air intake design
- Drill motor is ATEX certified Ex e II T3,  II 2 G c T3 by Sira, 06ATEX3189X
- Space heater: 100-watt Ex d IIC T3. Wired to Stainless Steel Ex e II T6 termination box
-   when motor is used in hazardous areas with approved Variable Frequency Drives (VFD)
- Motor enclosure: IP44
- Shaft height and mounting feet dimensions are the same as 5GE752. Shaft diameter and hub are larger
- Approximate weight: 8550 lb., 3878 kg

