

GE Transportation

Drilling Motor Standard Specification

Model Number: 5GEB22D4
(Offshore Features)

Description

GE 1150 HP (858 kW) **ATEX certified** AC drilling motor.

Type

Horizontal, splash-proof fully guarded (IP44), **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 single shaft extension & hub** for high-tension radial loads. High strength 4340 alloy steel shaft
- ABS certification with ABS stamped shaft
- Stainless steel universal (field convertible from A to B side) main connection box is IP56 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 switch - ATEX certified  II 2 G Ex d IIC T6
- Blower assembly: 13 kW / 460 VAC / 60 Hz Ex d IIC T4 motor, meets or exceeds 3000scfm of required ventilation air. Dual louver IP44 air intake design
- Side discharge IP44 air outlet duct assembly (AODA)
- Drill motor is ATEX certified Ex e II T3,  II 2 G c T3 by Sira, 09ATEX3077X
- 400-watt tape heaters (200-watts on each end of motor), wired to main connection box, connected at 240V and field convertible to 120V, ATEX certified Ex e II,  II 2 G
-   when motor is used in hazardous areas with approved Variable Frequency Drives (VFD)
- Motor enclosure: IP44
- Approximate weight: 6500 lb., 2948 kg

