

Drilling Motor Specification

Model Number: 5GEB22D-CLC (Offshore Features)

Description

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

Type

Horizontal, **Water to Air Cooled** (TEWAC or CACW) meeting IP56.

Ratings




Maximum continuous power: 1150 HP (858 kW), 7550 lb_f-ft (10240 Nm), 1120 amps, 600 to 690 VAC, and 800 - 1800 rpm

Intermittent duty cycle: 1400 HP (1044 kW), 9200 lb_f-ft (12475 Nm), 1380 amps, 600 to 690 VAC, and 800 rpm, (120 sec. on – 90 sec. off)

Maximum RPM: 3000

Temperature rating: 110°C rise at 45°C ambient

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 terminal box is IP56 with bus bar connections for main cable terminations. Terminal points for RTD, winding heaters & pressure sensor connections. Terminal 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.
- **Closed Cooling System** consisting sea water heat exchanger requiring 100 GPM of 33°C cooling water, centrifugal blower with 15HP (11 kW) / 460vac / 60 cycle EEx d IIC T4 motor, and associated ducting and accessories. Additional accessories include: Differential pressure switch across the blower, moisture detector, and pressurization manifold
- 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), connected at 240V and field convertible to 120V, ATEX certified EEx e II,  II 2 G with EEx e II T6 termination box.
-  when motor is used in hazardous areas with approved Variable Frequency Drives (VFD).
- Motor enclosure: TEWAC or CACW meeting IP56.
- Motor is dimensionally interchangeable with the GE 752 motor; shaft height and mounting feet are the same.
- Approximate weight: 7200 lb., 3266 kg.