

Drilling Motor Specification

Model Number: 5GEB20B

Description

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





Type

Vertical, splash-proof fully guarded (IP44), with additional IP accessories, not provided by GE.

Ratings

Maximum continuous power: 1150 HP (858 kW), 7550 lb_f-ft (10240 Nm), 1120 amps, 600 VAC, and 900 - 1200 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: 2300
Temperature rating: 110°C rise at 45°C ambient

Features

- Special framehead and thrust bearing for vertical operation
- 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.
- Double shaft extension. Hubs included only on request. 1045 alloy steel ABS certified shaft.
- (3) 16 ft. long armored marine cables, 646 MCM. Connection lugs and terminal box not included.
- (6) RTDs, 100 ohm platinum, two per phase embedded in stator slots, leads are not terminated.
- Separately ventilated – flanged inlet provided for forced ventilation, blower not included – 2300 scfm required.
- Drill motor is ATEX certified Ex e II T3,  II 2 G c T3 by Sira, 09ATEX3076X.
- 400-watt tape heaters (200-watts on each end of motor), connected at 240V and field convertible to 120V, ATEX certified EEx e II, .
-   when motor is used in hazardous areas with approved Variable Frequency Drives (VFD).
- Motor enclosure: IP22; IP44 rating when fitted with additional ATEX approved equipment by drilling system OEMs.
- Paint – Primer only. Final coat by others.
- Hardware retainers are not included. GE hardware not modified to accept retainer wire.
- Encoder, space heater, pressure sensor and discharge air handler are not included.
- Approximate weight: 6162 lb., 2795 kg.

5GEB20B is a standard vertical GE Drilling Motor that requires additional wiring, modifications and accessories to be added by the user. This motor is not a direct replacement for an existing top drive. Top drive manufacturers make modifications and/or additions to these motors prior to mounting. These modifications and/or additions are not included in this equipment. GE recommends contacting the equipment manufacturer for replacement motors.