

# Drilling Motor Specification

Model Number: 5GEB27A

## Description

GE 1500 HP (1120 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: 1500 HP (1120 kW), 8750 lb<sub>f</sub>-ft (11863 Nm), 1360 amps, 600 VAC, and 900 - 1200 rpm  
Intermittent duty cycle: 1830 HP (1044 kW), 12000 lb<sub>f</sub>-ft (16270 Nm), 1740 amps, 600 690 VAC, and 900 rpm,  
(60 sec. on – 30 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. High strength 4340 alloy steel shaft.
- ABS certification with ABS stamped shaft.
- (2) Stainless steel main terminal boxes are IP56 with bus bar connections for main cable terminations. Terminal boxes are mounted on left "A" side and right "B" side of motor as viewed from non-drive end of motor. Terminal points for RTD & pressure sensor connections.
- (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 – 3900 scfm required.
- Drill motor is ATEX certified Ex e II T3,  II 2 G c T3 by Sira, 06ATEX3189X.
-   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: 7878 lb., 3581 kg.

5GEB27A 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.