

5GEB20

Vertical Mount AC Drilling Motor 1150 HP (858kW)



GE's AC and DC motors have delivered industry leading technology for more than 50 years. Pioneering the application of AC technology to oilfield equipment, GE has more than 4,000 AC units in operation on more than 600 rigs worldwide.

GE's AC motors have been field proven in the harshest conditions and are now compliant to a broader range of industry certifications: ATEX, IECEx, and CSAus, satisfying the new North American AEx requirements and increasing operations across more rigs, geographies and regulated territories. GE AC motors, 5GEB20 & 5GEB22, in the 1150hp class offers rotor inertia levels that are among the lowest in the industry and optimal for drawworks applications. Torque & power density levels are also among the highest in the industry, optimal for deeper-water offshore applications, where space is a premium.

Performance ratings

The 5GEB20 AC drilling motor with 2800 SCFM airflow and temperature rise of 110°C at 45°C ambient.

	Continuous Rating		Intermittent Rating (120 sec on ~ 90 sec off)
Rated Volts (AC)	587		587
Current (Amps)	1120		1360
Base Speed (RPM)	800	900	587
with 600v VFD			
Speed @ Rated HP (RPM)	800-1400	900-1200	800
HP (kW)	1150 (858)	TBD	1400 (1044)
with 690v VFD			
Speed @ Rated HP (RPM)	800-1400	900-1200	800
HP (kW)	1150 (858)	TBD	1400 (1044)
Torque lb.-ft./Nm	7550 (10240)		9200 (12475)
Speed @ Rated Torque	0 to 800		0 to 800
Max Speed (RPM)	3000		3000

Standard Features

- Special frame head and thrust bearing for vertical operation
- 6-pole stator with FORM WOUND windings
- Copper chromium alloy rotor bars
- Class H insulation, robotically taped, Mica-Kapton system
- Insulated bearing on non-drive end
- Double shaft extension
- Winding RTDs, 100 ohm platinum; 2 per phase
- Separately ventilated – flanged inlet provided for forced ventilation, blower not included, requires 2800 SCFM during operation
- Three 16 ft. power leads - 646 MCM armored cables
- Connection lugs and terminal box not included
- Pressure sensor to verify ventilation
- Tape heater - 400 watts (200 watts per each end of motor)
- Same shaft height and mounting feet dimensions as the 5GE752



GE imagination at work

Ge Drill User Manual

Siddappa N.Byrareddy



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