

# BRIGHT III VARIABLE SPEED DRIVE



## Features

- Automatic speed adjustment
- Auto-intermittent/continuous pumping modes
- Auto-bypass function
- Auto-counterweight adjustment
- Failure diagnosis
- Embedded DBR
- Easy installation and operation

## Benefits

- Optimized production
- Reduced power consumption
- Reduced manpower requirements
- Reduced equipment wear

## Features Description

- Auto-Intermittent / Continuous Pumping Modes**  
 The controller can automatically switch between Intermittent and Continuous pumping modes, based on the analysis of the surface dynamometer card. When in the intermittent mode, the Bright III VSD can serve as a pump-off controller, eliminating the need for a physical restart. This controller can also automatically adjust the speed, as well as running and idle times, to optimize production and power consumption.
- Auto-Bypass Function**  
 If the VSD system fails, the controller automatically switches to bypass mode to ensure continued system operation.
- Failure Diagnosis**  
 The Bright III VSD controller detects failures through sensor output and allows the operator to view the alarms either onsite or remotely, when communications are installed.
- Power Consumption Reports**  
 The Bright III VSD controller generates power consumption reports on a per-day and/or per-month basis.
- Remote Monitoring and Control**  
 The Bright III VSD controller allows for download of all data to a computer via through a USB port or when connected to a SCADA system.
- Auto-Counterweight Adjustment (optional)**  
 Using a patented auxiliary counterweight, the Bright III VSD maintains system balance by self-adjusting that counterweight in response to ever changing well conditions.
- Heater (optional)**  
 An optional heater, with automatic ambient temperature control, is available for cold climate applications.

Technical Data		
Rated Input	Voltage	460V (-20%, +10%)
	Frequency	50/60 Hz (±5%)
Rated Output	Voltage	0 to input voltage
	Frequency Range	0-400Hz
	Power Rating	10-150HP
	Over-Load Capacity	150%, 60s
Protection		Over-current above 200%
		Over-load 150% above and 60s
		Motor protection
		Over-temperature, over-voltage, the input phase loss
Environment	Operating Temperature	-10-50C0 (up to 600 with output current derating)
	Cooling	Forced air
	Humidity	5%-95%RH
	Enclosure	IP23
	Altitude	1000m with full output up to 3000m, with output current and voltage de-rating

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