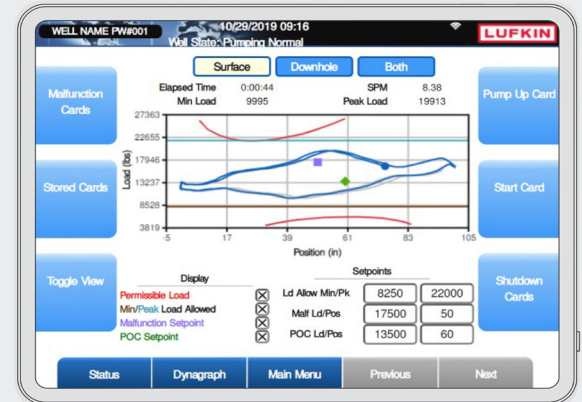


LUFKIN Well Manager 2.0 VSD Specification Sheet



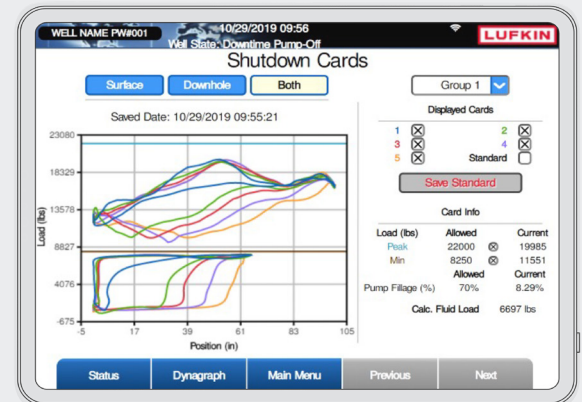
VARIABLE SPEED DRIVE SPECIFICATIONS

Power Rating	10-250 HP (7.5-200 kW)
Voltage	380 V – 500 V, +/- 10% 50/60 Hz (+/-5%) 525 V – 690 V, +/- 10% (Special order)
Power Phase Operation	Three Phase or Single-Phase Operation (single phase HP derated)
Output Rating	
Voltage	0-100% supply voltage
Frequency Range	0-590 Hz
Overload Current Rating	160% for 60 seconds, 200% for 2 seconds
Motor Control	Sensor less Vector or V/Hz
Surge Protection	Built-in surge protection that meets UL 1449, Rev 3
Built-in Filter	400V 10-150 HP: Built-in EMI noise filter (EN5501 Class A, EN61800-3 category 3 compliant)
Built-in DC Link Reactor	400V 25-100 HP (18.5-75 kW), Built-in DC Reactor 400V 125-200 HP (90-112.5 kW), Attached AC Reactor
Enclosure Type, Ingress Protection	IP56 with convection-cooled cabinet with forced air-cooled frequency converter
Enclosure Dimensions	
Size 1 (100 HP and under):	70.74" (1797mm) H x 34" (864mm) W x 27.67" (703mm) D
Size 2 (125 -200 HP):	72.67" (1846mm) H x 34" (864mm) W x 39.04" (992mm) D
Size 3 (125-250 HP):	73" (1854mm) H x 34" (864mm) W x 35" (889mm) D
Ambient Temperature / Relative Humidity	-40 to 60°C (derate above 50°C), 0-95% relative humidity, non-condensing (as integrated package)
Altitude	Full output to 1,000 m (3,281 ft) elevation Derate 1% for each additional 100 m (328 ft)
Application	Rod Pump Control Conventional, linear, and hydraulic pumping units Compatible with DH pressure gauge input
Operator Interface	640 x 480 TFT Color Wi-Fi, Web Server for remote access
I/O	8 AI, 2 AO, 8 DIO, 2 PDI (Exp.to 16AI, 4 AO, 16 DIO, 4 PDI)
Memory	512MB DDR3 RAM, 1GB on Board Flash
USB for additional storage	Yes (+ Micro SD, future)
Certification/Standard	cULus, IEC
Communications	RS232, RS485, Ethernet, Wi-Fi Web Server, Modbus RTU & Modbus TCP Compatible with any standard internet browser, including Apple Safari, Google Chrome, and Microsoft Internet Explorer Compatible with smart phone Internet browsers



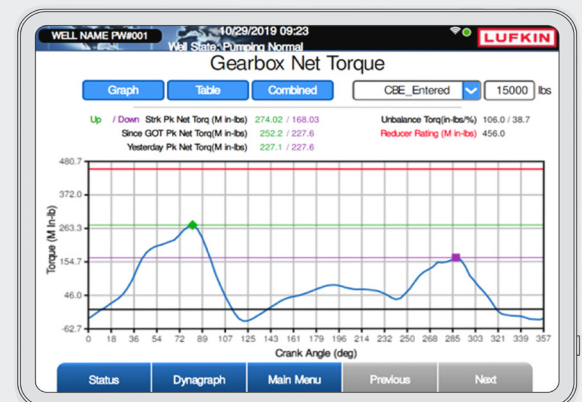
VSD Control function

Intuitive dynagraph setup with permissible loads



Shutdown cards

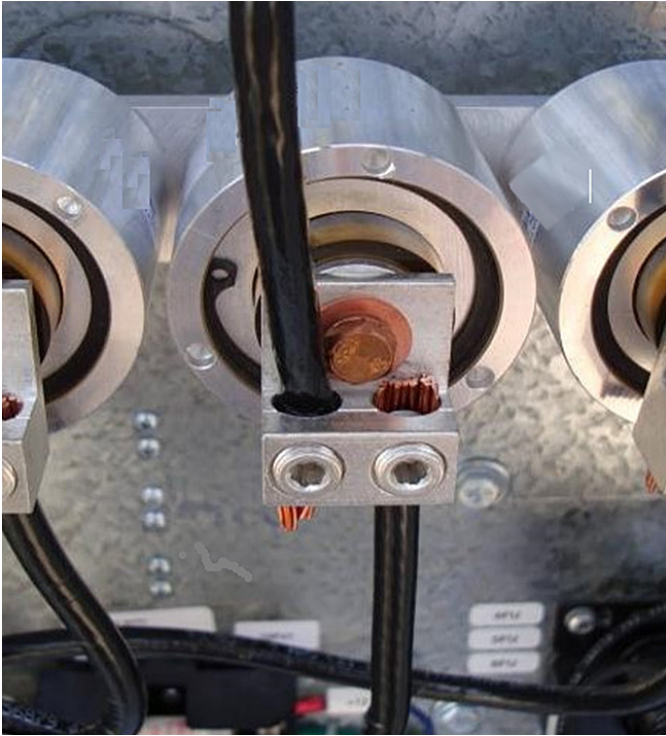
Multiple 5-card shutdown buffers, critical for diagnostics and Root Cause Analysis (RCA)



Gear Reducer Torque

For every stroke, the LWM 2.0 calculates gear reducer torque per 15 deg. Crank Angle intervals utilizing actual Polished Rod Load utilizing the API RP11E method.

A VFD is not required to generate the torque plots!



RayCap TVSS

RayCap TVSS available for superior surge suppression, capable of mitigating multiple strikes.



Harmonic Filter

Passive Harmonic Filters limit total harmonic distortion to 5% or less, meeting the IEEE-519, 2014 standard.



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