



Weatherford[®]

Pump Panel Motor Control Unit



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Features

- NEMA 3R enclosure
- Spring latches allow access to panel without tools
- Circuit breaker or fused disconnect with safety interlock
- Hand-off-automatic (HOA) selector switch
- Front-mounted motor O/L reset button
- Adjustable ON/OFF timer
- Configurable restart time after power failure
- Adjustable trip current/voltage settings
- Automatic restart after overload or underload conditions
- Optional remote access available to view motor data



The primary function of a pump panel motor control unit is to provide a low-cost, effective means of controlling and protecting the electric motor in a manner that provides added safety for both personnel and equipment. The main inlet disconnect is mechanically interlocked protecting against the main door being opened while powered for added safety. The disconnect provides system short circuit protection as well as electrical isolation for the safety of operators. The solid state overload relay monitors the power to the pump motor while providing programmable protection and controls the main contactor as per the adjustable programming. The front-mounted manual-reset pushbutton is used to reset trip conditions after the fault has been cleared. An HOA switch located on the side of the enclosure allows the operator a means to start and stop the unit. The pump panel unit monitors and provides superior protection of the motor against:

- Phase loss
- Overcurrent
- Undercurrent
- Current unbalance
- Low voltage
- High voltage
- Voltage unbalance (phase unbalance)
- Class 2 ground fault

The pump panel motor control unit can be configured to interface with Rotaflex® pumping units, progressive cavity pumping (PCP) systems, hydraulic pumping units and standard rod-pumping systems.

Standard Operating Controls and Indicators

- Main breaker/fused disconnect
- HOA switch
- Overload indicator
- Overload reset button

Optional Controls

- External on/off timer potentiometers
- Vibration alarm light and reset
- Pressure alarm light and reset
- Operator interface display/keypad
- Communication interface

Dimensional Data

Size	HP	Volts	Height		Width		Depth		Weight		Mount
			in.	cm	in.	cm	in.	cm	lb	kg	
1	7 to 15	460	38.5	97.8	19	48.3	7.29	53.9	120	55	pole or rack
	7 to 10	380									
2	15 to 25	460	38.5	97.8	19	48.3	7.29	53.9	120	55	pole or rack
	10 to 20	380									
3	30 to 50	460	56.5	143.5	23.0	56.4	13.8	35.1	180	82	pole or rack
	20 to 40	380									
4	60 to 100	460	56.5	143.5	23.0	56.4	13.8	35.1	220	100	rack or free standing
	50 to 75	380									
5	100 to 200	460	74.5	189.2	22.0	55.9	13.8	35.1	400	182	rack or free standing
	75 to 150	380									

Specifications

Environmental	
Operating temperature (°F/°C)	-40 to 122 (-40 to 50)
Storage temperature (°F/°C)	-40 to 122 (-40 to 50)
Relative humidity	95%, noncondensing
Altitude (ft/m)	Up to 10,000 (3,048) maximum



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