

PRODUCT PROFILE

GLOBAL DRIVE SYSTEMS

VARIABLE SPEED AC DRIVES FOR PUMP JACK SOLUTIONS

Providing users with easy installation in Pump Jack systems, the Allen-Bradley PowerFlex® 700 AC drive offers a wide range of built-in features allowing for seamless pump jack system control. Available in power ratings of 25-125 HP @ 380 – 480V AC, the PowerFlex 700 is designed to meet global OEM, contractor and end-user demands for flexibility, space savings and ease-of-use.

The PowerFlex 700 is a cost-effective solution for speed control in constant torque Pump Jack applications.

FEATURES

- Nema 3R enclosure rated for outdoor all weather use
- Adjustable Speed Ramp to reduce starting wear on mechanical pumping equipment
- Variable Speed Control to allow for a reduced “pump off” condition
- Bus Regulation to handle regenerative energy produced by 1/2 of the pump cycle
- Sensorless Vector Control to allow the PowerFlex700 to develop high torque over a wide speed range, and adapt to individual motor characteristics
- Auto/Manual Selectable Speed Control to allow an auto 4-20ma or 0-10V and a door mounted manual speed pot
- Latchable Pump Stop Indicators to allow up to three separate inputs to be displayed for pump stopping condition (first fault function)



COMMUNICATIONS

- Drive mounted digital HIM allows easy access to programming parameters and set-up features
- Supports Drive Serial Interface (DSI) communication modules and accessories
- DriveExplorer™ and DriveTools™ SP software can be used to easily program, monitor and control the drives



Drive Mounted Multi-line Display

Presents data in correct format
Displayed in user defined units (e.g. gal/min, cfm)

Easy to use & understand

Data presented clearly
Pop-up menus and messages for better alerts / access

SPECIFICATIONS

Standards	<ul style="list-style-type: none"> • UL and cUL (CSA) Listed • CE Marked • EMC EN61800-3 (with external filter) • C-Tick 																												
Input Specifications	1 or 3-Phase Voltage: 380-480V +/-10% Logic Control Ride Through: >= 0.5 seconds, 2 seconds typical Frequency: 48-63 Hz																												
Output Specifications	Voltage: Adjustable from 0V to rated motor voltage Frequency Range: 0 to 320 Hz Overload Current: 150% for 60 seconds																												
Enclosure and Ambient Operating Temperature	<ul style="list-style-type: none"> • NEMA Type 3R: -10 to 50°C (14 to 122°F) 																												
Control	<ul style="list-style-type: none"> • 6 Digital programmable Inputs • 3 Programmable Form C Relay Outputs • 2 Analog Inputs (0 to 10V or 4 to 20mA) • 2 Analog Outputs (0 to 10V or 4 to 20mA) 																												
Options (Accessories)	<ul style="list-style-type: none"> • Communication: ControlNet™, DeviceNet™, EtherNet/IP™ and PROFIBUS™ Communication Cards • DSI Cables • EMC Line Filters • Load Reactors 																												
Ratings	<table border="1"> <thead> <tr> <th>Voltage Class</th> <th>kW (HP)</th> <th>Cont. Output Current (Amps)</th> <th>Frame</th> </tr> </thead> <tbody> <tr> <td>380-480V</td> <td>18.5 (25)</td> <td>40</td> <td>3</td> </tr> <tr> <td>380-480V</td> <td>30 (40)</td> <td>65</td> <td>3</td> </tr> <tr> <td>380-480V</td> <td>37 (50)</td> <td>77</td> <td>4</td> </tr> <tr> <td>380-480V</td> <td>45 (60)</td> <td>96</td> <td>5</td> </tr> <tr> <td>380-480V</td> <td>75 (100)</td> <td>156</td> <td>6</td> </tr> <tr> <td>380-480V</td> <td>95 (125)</td> <td>180</td> <td>6</td> </tr> </tbody> </table>	Voltage Class	kW (HP)	Cont. Output Current (Amps)	Frame	380-480V	18.5 (25)	40	3	380-480V	30 (40)	65	3	380-480V	37 (50)	77	4	380-480V	45 (60)	96	5	380-480V	75 (100)	156	6	380-480V	95 (125)	180	6
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