

Flex3R

VARIABLE SPEED AC DRIVES FOR PUMP PANEL SOLUTIONS

Providing users with easy installation in Pump Panel systems, the Allen-Bradley PowerFlex® 750 Series AC drive offers a wide range of built-in features allowing for seamless pump or artificial lift system control. Available in power ratings of 5-250 HP @ 380 - 480V AC, the PowerFlex 750 series is designed to meet global OEM, contractor and end-user demands for flexibility, space savings and ease-of-use.

The PowerFlex® 750 Series AC drive is a cost-effective solution for speed control in constant or variable torque pump applications.

Features

- NEMA 3R provides a degree of protection from rain, sleet, and snow and ice formation
- Adjustable Speed Ramp to reduce starting wear on mechanical pumping equipment
- PID Pressure or Flow Control with Pump Panel profile
- The PowerFlex® 750 Series AC drive develops high torque over a wide speed range to adapt to individual motor characteristics
- Input Line Reactor
- Temperature controlled enclosure heater and fans
- Door Mounted HIM under lockable door

Optional Features

- Two Contactor Bypass
- Up to three operators under Lockable door
- Auto/Manual Selectable Speed Control to allow an auto 4-20ma or 0-10V
- Door mounted manual speed pot
- Pilots Lights – Drive running/Fault/Power...
- Lightning Arrestor/TVSS
- Output Reactors
- DVDT filters for long motor leads
- Single Phase operation
- 208, 240, 600, 690vac



Communications

- Door mounted digital HIM allows easy access to programming parameters and set-up features
- Supports standard PowerFlex communication modules and I/O accessories
- DriveExplorer™ and DriveTools™ SP software can be used to easily program, monitor and control the drives



Door 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 508A Listed. Other ratings available by request. (cUL, CSA, CE, etc.)

Input Specifications

3-Phase Voltage: 480VAC +/-10%, Frequency: 48-63 Hz
Logic Control Ride Through: >= 0.5 seconds, 2 seconds typical

Output Specifications

Voltage: Adjustable from 0V to rated motor voltage
Frequency Range: 0 to 320 Hz
Overload Current: Heavy Duty:150% for 60 seconds, Normal Duty: 110% for 60 seconds

Enclosure and Ambient Operating Temperature

NEMA Type 3R: -10 to 40°C (14 to 104°F), Extend temperature range also available

Control

- 6 Digital programmable Inputs • 2 Analog Inputs (0 to 10V or 4 to 20mA)
- 3 Programmable Form C Relay Outputs • 2 Analog Outputs (0 to 10V or 4 to 20mA)

Options / Accessories

- Communication: ControlNet™, DeviceNet™, EtherNet/IP™ and PROFIBUS™ Communication Cards
- Laptop Cables • Drive Tools Software
- Line Filters • Harmonic Filters • Motor Protection Filter • Drive Bypass • Enclosure Leg Kit
- Single Phase • 208, 240, 400, 600, 690 VAC

Ratings

HP (HD)	Cont. Amps	Frame	Part Number No Bypass	Part Number w/ Bypass
7.5	13	3	D02-557P5L1H	
15	30	3	D02-55015L1H	
20	37	4	D02-55020L1H	
25	43	4	D02-55025L1H	
5	11	2	D02-73005L1H	D02-73005L1HBP
7.5	14	2	D02-737P5L1H	D02-737P5L1HBP
15	27	2	D02-73015L1H	D02-73015L1HBP
20	34	3	D02-73020L1H	D02-73020L1HBP
25	40	3	D02-73025L1H	D02-73025L1HBP
30	52	4	D02-73030L1H	D02-73030L1HBP
40	65	4	D02-73040L1H	D02-73040L1HBP
50	77	5	D02-73050L1H	D02-73050L1HBP
60	96	5	D02-73060L1H	D02-73060L1HBP
75	125	6	D02-73075L1H	D02-73075L1HBP
100	156	6	D02-73100L1H	D02-73100L1HBP
125	186	6	D02-73125L1H	D02-73125L1HBP
150	248	6	D02-73150L1H	D02-73150L1HBP
200	302	7	D02-73200L1H	D02-73200L1HBP
250	361	7	D02-73250L1H	D02-73250L1HBP
300	415	7	D02-73300L1H	D02-73300L1HBP



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