

PENTEK INTELLIDRIVE™ XL

PUMP CONTROLLERS



Variable Frequency Drives designed for large horsepower pumping applications. Power ratings to 730A with enclosures for indoor and outdoor applications.

APPLICATIONS

Turf irrigation, water transfer, light commercial water systems, and agricultural.

FEATURES

Variable Speed Control: Meets requirements of process control with constant pressure at variable flow conditions or constant flow at variable pressure conditions.

Pump System Protection: Dry Run detection, check valve ramp, pipe fill mode, Sleep mode, no/low flow detection, end of pump curve detection, integrated mains disconnect switch (optional), and real-time clock battery backup.

Phase Conversion: Single phase input drives are available that convert to 3 phase output.

Simple Setup:

- ◆ Pump and Motor Settings: Above/Below Ground, Horsepower, Voltage, Current, Nominal Speed.
- ◆ System Learning: No Load, Sleep, No Flow.

SPECIFICATIONS

AMP Ratings: 1.7-730

Voltage: 230, 460, 575

Frequency: 50/60 Hz

Standard I/O: Digital Inputs: 6; Analog Inputs: 2; Pulse Inputs: 2; Relays: 2; Digital Outputs: 2; Analog Outputs: 4

Communication: Modbus RTU

Enclosure Type: NEMA 1, 3R, 4X, IP20 Open/Chassis

ORDERING INFORMATION

SINGLE PHASE INPUT DRIVES				
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NEMA RATING	MODEL NUMBER
24.2	230	1	NEMA 1	PID007512ND
30.8				PID010012ND
59.4				PID020012ND
88				PID030012ND
24.2			NEMA 3R	PID007532NDBP
30.8				PID010032NDBP
59.4				PID020032NDBP
88				PID030032NDBP

SINGLE PHASE INPUT DRIVES				
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NEMA RATING	MODEL NUMBER
24.2	230	1	NEMA 4X	PID007542NDBP
30.8				PID010042NDBP
59.4				PID020042NDBP
88				PID030042NDBP

230V 1-PHASE INPUT DRIVES (VARIOUS ENCLOSURES, NO DISCONNECT)

THREE PHASE INPUT DRIVES			NEMA 1		NEMA 3R		NEMA 4X		OPEN CHASSIS
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT
4.6	230	3	PID001013ND	PID001013FD	PID001033NDBP	PID001033FDBP	PID001043NDBP	PID001043FDBP	PID001003ND
7.5			PID002013ND	PID002013FD	PID002033NDBP	PID002033FDBP	PID002043NDBP	PID002043FDBP	PID002003ND
10.6			PID003013ND	PID003013FD	PID003033NDBP	PID003033FDBP	PID003043NDBP	PID003043FDBP	PID003003ND
16.7			PID005013ND	PID005013FD	PID005033NDBP	PID005033FDBP	PID005043NDBP	PID005043FDBP	PID005003ND
24.2			PID007513ND	PID007513FD	PID007533NDBP	PID007533FDBP	PID007543NDBP	PID007543FDBP	PID007503ND
30.8			PID010013ND	PID010013FD	PID010033NDBP	PID010033FDBP	PID010043NDBP	PID010043FDBP	PID010003ND
46.2			PID015013ND	PID015013FD	PID015033NDBP	PID015033FDBP	PID015043NDBP	PID015043FDBP	PID015003ND
59.4			PID020013ND	PID020013FD	PID020033NDBP	PID020033FDBP	PID020043NDBP	PID020043FDBP	PID020003ND
74.8			PID025013ND	PID025013FD	PID025033NDBP	PID025033FDBP	PID025043NDBP	PID025043FDBP	PID025003ND
88			PID030013ND	PID030013FD	PID030033NDBP	PID030033FDBP	PID030043NDBP	PID030043FDBP	PID030003ND
115			PID040013ND	PID040013FD	PID040033NDBP	PID040033FDBP	PID040043NDBP	PID040043FDBP	PID040003ND
143			PID050013ND	PID050013FD	PID050033NDBP	PID050033FDBP	PID050043NDBP	PID050043FDBP	PID050003ND
170			PID060013ND	PID060013FD	PID060033NDBP	PID060033FDBP	PID060043NDBP	PID060043FDBP	PID060003ND
2.1	460		PID001014ND	PID001014FD	PID001034NDBP	PID001034FDBP	PID001044NDBP	PID001044FDBP	PID001004ND
3.4			PID002014ND	PID002014FD	PID002034NDBP	PID002034FDBP	PID002044NDBP	PID002044FDBP	PID002004ND
4.8			PID003014ND	PID003014FD	PID003034NDBP	PID003034FDBP	PID003044NDBP	PID003044FDBP	PID003004ND
8.2			PID005014ND	PID005014FD	PID005034NDBP	PID005034FDBP	PID005044NDBP	PID005044FDBP	PID005004ND
11			PID007514ND	PID007514FD	PID007534NDBP	PID007534FDBP	PID007544NDBP	PID007544FDBP	PID007504ND

ORDERING INFORMATION

DATA SHEET

230V 1-PHASE INPUT DRIVES (VARIOUS ENCLOSURES, NO DISCONNECT)

THREE PHASE INPUT DRIVES			NEMA 1		NEMA 3R		NEMA 4X		OPEN CHASSIS
OUTPUT AMPS	INPUT VOLTAGE	INPUT PHASE	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT	DISCONNECT	NO DISCONNECT
14.5	460		PID010014ND	PID010014FD	PID010034NDBP	PID010034FDBP	PID010044NDBP	PID010044FDBP	PID010004ND
21			PID015014ND	PID015014FD	PID015034NDBP	PID015034FDBP	PID015044NDBP	PID015044FDBP	PID015004ND
27			PID020014ND	PID020014FD	PID020034NDBP	PID020034FDBP	PID020044NDBP	PID020044FDBP	PID020004ND
34			PID025014ND	PID025014FD	PID025034NDBP	PID025034FDBP	PID025044NDBP	PID025044FDBP	PID025004ND
40			PID030014ND	PID030014FD	PID030034NDBP	PID030034FDBP	PID030044NDBP	PID030044FDBP	PID030004ND
52			PID040014ND	PID040014FD	PID040034NDBP	PID040034FDBP	PID040044NDBP	PID040044FDBP	PID040004ND
65			PID050014ND	PID050014FD	PID050034NDBP	PID050034FDBP	PID050044NDBP	PID050044FDBP	PID050004ND
80			PID060014ND	PID060014FD	PID060034NDBP	PID060034FDBP	PID060044NDBP	PID060044FDBP	PID060004ND
105			PID075014ND	PID075014FD	PID075034NDBP	PID075034FDBP	PID075044NDBP	PID075044FDBP	PID075004ND
130			PID100014ND	PID100014FD	PID100034NDBP	PID100034FDBP	PID100044NDBP	PID100044FDBP	PID100004ND
160			PID125014ND	PID125014FD	PID125034NDBP	PID125034FDBP	PID125044NDBP	PID125044FDBP	PID125004ND
1.7	575	3	PID001015ND	PID001015FD	PID001035NDBP	PID001035FDBP	PID001045NDBP	PID001045FDBP	PID001005ND
2.7			PID002015ND	PID002015FD	PID002035NDBP	PID002035FDBP	PID002045NDBP	PID002045FDBP	PID002005ND
3.9			PID003015ND	PID003015FD	PID003035NDBP	PID003035FDBP	PID003045NDBP	PID003045FDBP	PID003005ND
6.1			PID005015ND	PID005015FD	PID005035NDBP	PID005035FDBP	PID005045NDBP	PID005045FDBP	PID005005ND
9			PID007515ND	PID007515FD	PID007535NDBP	PID007535FDBP	PID007545NDBP	PID007545FDBP	PID007505ND
11			PID010015ND	PID010015FD	PID010035NDBP	PID010035FDBP	PID010045NDBP	PID010045FDBP	PID010005ND
18			PID015015ND	PID015015FD	PID015035NDBP	PID015035FDBP	PID015045NDBP	PID015045FDBP	PID015005ND
22			PID020015ND	PID020015FD	PID020035NDBP	PID020035FDBP	PID020045NDBP	PID020045FDBP	PID020005ND
27			PID025015ND	PID025015FD	PID025035NDBP	PID025035FDBP	PID025045NDBP	PID025045FDBP	PID025005ND
34			PID030015ND	PID030015FD	PID030035NDBP	PID030035FDBP	PID030045NDBP	PID030045FDBP	PID030005ND
41			PID040015ND	PID040015FD	PID040035NDBP	PID040035FDBP	PID040045NDBP	PID040045FDBP	PID040005ND
52			PID050015ND	PID050015FD	PID050035NDBP	PID050035FDBP	PID050045NDBP	PID050045FDBP	PID050005ND
62			PID060015ND	PID060015FD	PID060035NDBP	PID060035FDBP	PID060045NDBP	PID060045FDBP	PID060005ND
83			PID075015ND	PID075015FD	PID075035NDBP	PID075035FDBP	PID075045NDBP	PID075045FDBP	PID075005ND
100			PID100015ND	PID100015FD	PID100035NDBP	PID100035FDBP	PID100045NDBP	PID100045FDBP	PID100005ND
131			PID125015ND	PID125015FD	PID125035NDBP	PID125035FDBP	PID125045NDBP	PID125045FDBP	PID125005ND



293 Wright Street
Delavan, WI 53115
Ph: 866.973.6835
Fx: 800.426.9446

490 Pinebush Rd., Unit 4
Cambridge, Ontario
Canada N1T 0A5
Ph: 800.363.7867
Fx: 888.606.5484

pentair.com

All indicated Pentair trademarks and logos are property of Pentair. Third party registered and unregistered trademarks and logos are the property of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

©2022 Pentair. All Rights Reserved.

P11995WS (10-15-22)