

# PENTEK INTELLIDRIVE™ XL SELECTION GUIDE



**An Easy Way to Manage Water and Energy**

Pentek Intellidrive™ XL, the latest addition to our line of our variable frequency drives, is designed for large horsepower pumping applications. Selection is easy. Setup for single pump, constant pressure is simple. And you have powerful opportunities to customize as needs arise. All backed by expert, dedicated tech support, available to quickly and efficiently resolve any issues.

**Selection is Easy**

**Choose Phase, Voltage, and Horsepower**

- 1 Phase 200-240V - 7.5 to 30HP
- 3 Phase 200-240V - 1 to 60HP
- 3 Phase 380-480V - 1 to 150HP
- 3 Phase 525-600V - 1 to 150HP

**Select Enclosure**

- IP20 Open
- NEMA 1
- NEMA 3R
- NEMA 4X

**Choose Disconnect Type**

- Standard - simply connect to the drive. Not included. Customer installed.
- Fused - Integrated fused disconnect in the drive.

**Simple Setup**

**Enter Pump and Motor Settings**

- Submersible/Above Ground
- Horsepower
- Voltage, Nominal Current
- Nominal Speed

**System Learning**

Teach the drive how to act in the specific application when there is no load or no flow. Also teach the drive how to go to sleep.

**Ready To Go**

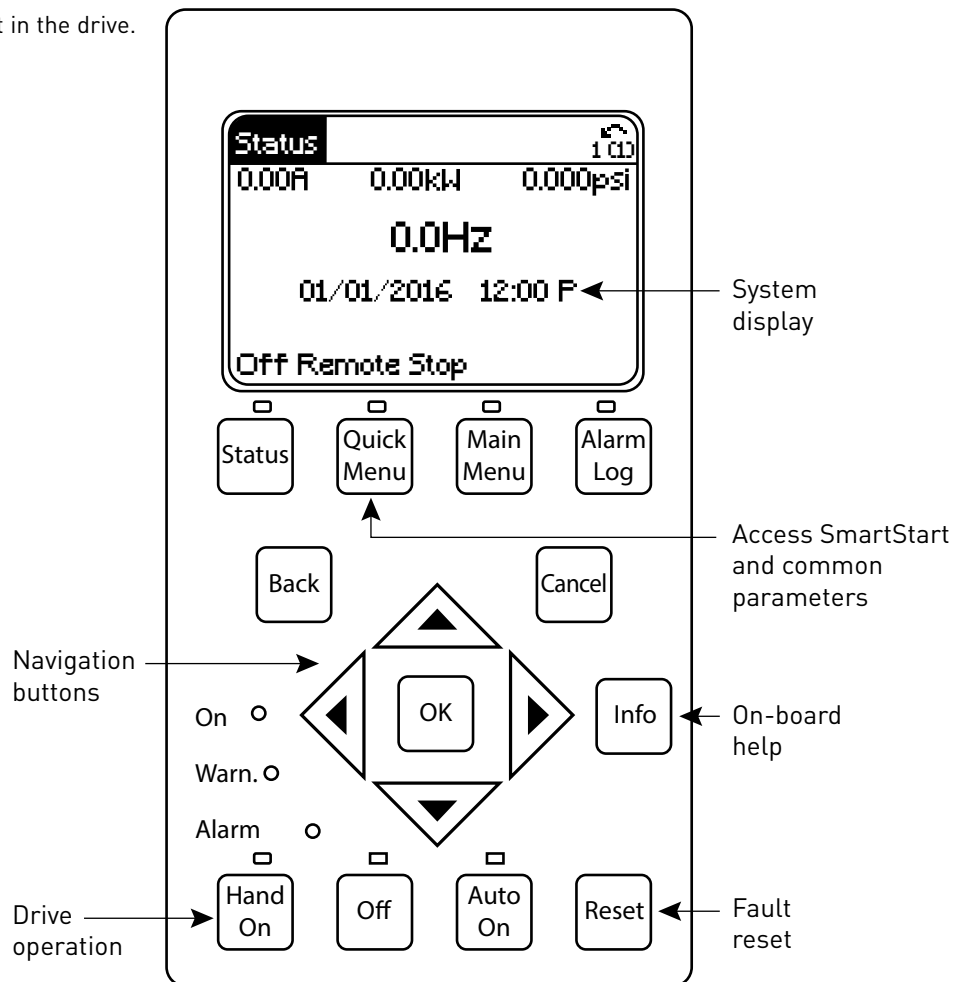
That's it. The drive is now ready to use. Following those simple steps to configure your system has you ready to move to the next job.

**More Ways to Customize**

The offering is simple. Yet, you have plenty of ways to customize when you dig into the programming and the applications available. You can create the right drive for your needs. Configure drive details like multi-pump control, lead/lag operation, enclosure types, filters, communication methods, and various I/O options.

**Dedicated Tech Support**

With Pentek Intellidrive XL, you get a knowledgeable sales force and team of application specialists specifically dedicated to helping you. We want to make your experience a profitable one. You'll get your questions answered quicker and get up and running sooner.



**Model Number**

PID 0010 1 2 FD -01

**Model**

PID

**Horsepower**

- 0010 = 1 HP
- 0075 = 7.5 HP
- 0100 = 10 HP
- 1000 = 100 HP

**Enclosure**

- 0 = IP20 Open chassis
- 1 = NEMA 1
- 2 = NEMA 12
- 3 = NEMA 3R
- 4 = NEMA 4X

**Voltage**

- 2 = 230V, 1 PH
- 3 = 230V, 3 PH
- 4 = 460V, 3 PH
- 5 = 575V, 3 PH
- 9 = 460V, 1 PH

**Fused Disconnect**

- ND = No disconnect
- FD = Fused disconnect

**Revision Code**

- Blank = None
- 01 = First revision

**Single Phase Input Drives (Various Enclosures, No Disconnect)**

Output Amps*	Input Voltage	Input Phase	NEMA	Pentair Part Number	Part Description	Weight	Frame
24.2	200-240	1	1	PID007512ND	VFD, 7.5HP, 200-240V, 1 PH, ND	51	B1
30.8	200-240	1	1	PID010012ND	VFD, 10HP, 200-240V, 1 PH, ND	60	B2
59.4	200-240	1	1	PID020012ND	VFD, 20HP, 200-240V, 1 PH, ND	99	C1
88	200-240	1	1	PID030012ND	VFD, 30HP, 200-240V, 1 PH, ND	143	C2
24.2	200-240	1	3R	PID007532ND	VFD, 7.5HP, 200-240V, 1 PH, ND	51	B1
30.8	200-240	1	3R	PID010032ND	VFD, 10HP, 200-240V, 1 PH, ND	60	B2
59.4	200-240	1	3R	PID020032ND	VFD, 20HP, 200-240V, 1 PH, ND	99	C1
88	200-240	1	3R	PID030032ND	VFD, 30HP, 200-240V, 1 PH, ND	143	C2
24.2	200-240	1	4X	PID007542ND	VFD, 7.5HP, 200-240V, 1 PH, ND	51	B1
30.8	200-240	1	4X	PID010042ND	VFD, 10HP, 200-240V, 1 PH, ND	60	B2
59.4	200-240	1	4X	PID020042ND	VFD, 20HP, 200-240V, 1 PH, ND	99	C1
88	200-240	1	4X	PID030042ND	VFD, 30HP, 200-240V, 1 PH, ND	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 1 Enclosure (No Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001013ND	VFD, NEMA 1, 1HP, 200-240V, 3 PH, ND	31	A5
7.5	200-240	3	PID002013ND	VFD, NEMA 1, 2HP, 200-240V, 3 PH, ND	31	A5
10.6	200-240	3	PID003013ND	VFD, NEMA 1, 3HP, 200-240V, 3 PH, ND	31	A5
16.7	200-240	3	PID005013ND	VFD, NEMA 1, 5HP, 200-240V, 3 PH, ND	31	A5
24.2	200-240	3	PID007513ND	VFD, NEMA 1, 7.5HP, 200-240V, 3 PH, ND	51	B1
30.8	200-240	3	PID010013ND	VFD, NEMA 1, 10HP, 200-240V, 3 PH, ND	60	B2
46.2	200-240	3	PID015013ND	VFD, NEMA 1, 15HP, 200-240V, 3 PH, ND	30	B3
59.4	200-240	3	PID020013ND	VFD, NEMA 1, 20HP, 200-240V, 3 PH, ND	60	B2
74.8	200-240	3	PID025013ND	VFD, NEMA 1, 25HP, 200-240V, 3 PH, ND	99	C1
88	200-240	3	PID030013ND	VFD, NEMA 1, 30HP, 200-240V, 3 PH, ND	99	C1
115	200-240	3	PID040013ND	VFD, NEMA 1, 40HP, 200-240V, 3 PH, ND	99	C1
143	200-240	3	PID050013ND	VFD, NEMA 1, 50HP, 200-240V, 3 PH, ND	143	C2
170	200-240	3	PID060013ND	VFD, NEMA 1, 60HP, 200-240V, 3 PH, ND	143	C2
2.1	380-480	3	PID001014ND	VFD, NEMA 1, 1HP, 380-480V, 3 PH, ND	12	A2+N1
3.4	380-480	3	PID002014ND	VFD, NEMA 1, 2HP, 380-480V, 3 PH, ND	12	A2+N1
4.8	380-480	3	PID003014ND	VFD, NEMA 1, 3HP, 380-480V, 3 PH, ND	12	A2+N1
8.2	380-480	3	PID005014ND	VFD, NEMA 1, 5HP, 380-480V, 3 PH, ND	12	A2+N1
11	380-480	3	PID007514ND	VFD, NEMA 1, 7.5HP, 380-480V, 3 PH, ND	17	A3+N1
14.5	380-480	3	PID010014ND	VFD, NEMA 1, 10HP, 380-480V, 3 PH, ND	17	A3+N1
21	380-480	3	PID015014ND	VFD, NEMA 1, 15HP, 380-480V, 3 PH, ND	51	B1
27	380-480	3	PID020014ND	VFD, NEMA 1, 20HP, 380-480V, 3 PH, ND	51	B1
34	380-480	3	PID025014ND	VFD, NEMA 1, 25HP, 380-480V, 3 PH, ND	51	B1
40	380-480	3	PID030014ND	VFD, NEMA 1, 30HP, 380-480V, 3 PH, ND	60	B2
52	380-480	3	PID040014ND	VFD, NEMA 1, 40HP, 380-480V, 3 PH, ND	60	B2
65	380-480	3	PID050014ND	VFD, NEMA 1, 50HP, 380-480V, 3 PH, ND	99	C1
80	380-480	3	PID060014ND	VFD, NEMA 1, 60HP, 380-480V, 3 PH, ND	99	C1
105	380-480	3	PID075014ND	VFD, NEMA 1, 75HP, 380-480V, 3 PH, ND	99	C1
130	380-480	3	PID100014ND	VFD, NEMA 1, 100HP, 380-480V, 3 PH, ND	143	C2
160	380-480	3	PID125014ND	VFD, NEMA 1, 125HP, 380-480V, 3 PH, ND	143	C2
1.7	525-600	3	PID001015ND	VFD, NEMA 1, 1HP, 525-600V, 3 PH, ND	17	A3+N1
2.7	525-600	3	PID002015ND	VFD, NEMA 1, 2HP, 525-600V, 3 PH, ND	17	A3+N1
3.9	525-600	3	PID003015ND	VFD, NEMA 1, 3HP, 525-600V, 3 PH, ND	17	A3+N1
6.1	525-600	3	PID005015ND	VFD, NEMA 1, 5HP, 525-600V, 3 PH, ND	17	A3+N1
9	525-600	3	PID007515ND	VFD, NEMA 1, 7.5HP, 525-600V, 3 PH, ND	17	A3+N1
11	525-600	3	PID010015ND	VFD, NEMA 1, 10HP, 525-600V, 3 PH, ND	17	A3+N1
18	525-600	3	PID015015ND	VFD, NEMA 1, 15HP, 525-600V, 3 PH, ND	51	B1
22	525-600	3	PID020015ND	VFD, NEMA 1, 20HP, 525-600V, 3 PH, ND	51	B1
27	525-600	3	PID025015ND	VFD, NEMA 1, 25HP, 525-600V, 3 PH, ND	51	B1
34	525-600	3	PID030015ND	VFD, NEMA 1, 30HP, 525-600V, 3 PH, ND	60	B2
41	525-600	3	PID040015ND	VFD, NEMA 1, 40HP, 525-600V, 3 PH, ND	60	B2
52	525-600	3	PID050015ND	VFD, NEMA 1, 50HP, 525-600V, 3 PH, ND	99	C1
62	525-600	3	PID060015ND	VFD, NEMA 1, 60HP, 525-600V, 3 PH, ND	99	C1
83	525-600	3	PID075015ND	VFD, NEMA 1, 75HP, 525-600V, 3 PH, ND	99	C1
100	525-600	3	PID100015ND	VFD, NEMA 1, 100HP, 525-600V, 3 PH, ND	143	C2
131	525-600	3	PID125015ND	VFD, NEMA 1, 125HP, 525-600V, 3 PH, ND	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 1 Enclosure (Fused Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001013FD	VFD, NEMA 1, 1HP, 200-240V, 3 PH, FD	15	A2+FD
7.5	200-240	3	PID002013FD	VFD, NEMA 1, 2HP, 200-240V, 3 PH, FD	15	A2+FD
10.6	200-240	3	PID003013FD	VFD, NEMA 1, 3HP, 200-240V, 3 PH, FD	15	A2+FD
16.7	200-240	3	PID005013FD	VFD, NEMA 1, 5HP, 200-240V, 3 PH, FD	19	A3+FD
24.2	200-240	3	PID007513FD	VFD, NEMA 1, 7.5HP, 200-240V, 3 PH, FD	51	B1
30.8	200-240	3	PID010013FD	VFD, NEMA 1, 10HP, 200-240V, 3 PH, FD	60	B2
46.2	200-240	3	PID015013FD	VFD, NEMA 1, 15HP, 200-240V, 3 PH, FD	30	B3
59.4	200-240	3	PID020013FD	VFD, NEMA 1, 20HP, 200-240V, 3 PH, FD	60	B2
74.8	200-240	3	PID025013FD	VFD, NEMA 1, 25HP, 200-240V, 3 PH, FD	99	C1
88	200-240	3	PID030013FD	VFD, NEMA 1, 30HP, 200-240V, 3 PH, FD	99	C1
115	200-240	3	PID040013FD	VFD, NEMA 1, 40HP, 200-240V, 3 PH, FD	99	C1
143	200-240	3	PID050013FD	VFD, NEMA 1, 50HP, 200-240V, 3 PH, FD	143	C2
170	200-240	3	PID060013FD	VFD, NEMA 1, 60HP, 200-240V, 3 PH, FD	143	C2
2.1	380-480	3	PID001014FD	VFD, NEMA 1, 1HP, 380-480V, 3 PH, FD	31	A5
3.4	380-480	3	PID002014FD	VFD, NEMA 1, 2HP, 380-480V, 3 PH, FD	31	A5
4.8	380-480	3	PID003014FD	VFD, NEMA 1, 3HP, 380-480V, 3 PH, FD	31	A5
8.2	380-480	3	PID005014FD	VFD, NEMA 1, 5HP, 380-480V, 3 PH, FD	31	A5
11	380-480	3	PID007514FD	VFD, NEMA 1, 7.5HP, 380-480V, 3 PH, FD	31	A5
14.5	380-480	3	PID010014FD	VFD, NEMA 1, 10HP, 380-480V, 3 PH, FD	31	A5
21	380-480	3	PID015014FD	VFD, NEMA 1, 15HP, 380-480V, 3 PH, FD	51	B1
27	380-480	3	PID020014FD	VFD, NEMA 1, 20HP, 380-480V, 3 PH, FD	51	B1
34	380-480	3	PID025014FD	VFD, NEMA 1, 25HP, 380-480V, 3 PH, FD	51	B1
40	380-480	3	PID030014FD	VFD, NEMA 1, 30HP, 380-480V, 3 PH, FD	60	B2
52	380-480	3	PID040014FD	VFD, NEMA 1, 40HP, 380-480V, 3 PH, FD	60	B2
65	380-480	3	PID050014FD	VFD, NEMA 1, 50HP, 380-480V, 3 PH, FD	99	C1
80	380-480	3	PID060014FD	VFD, NEMA 1, 60HP, 380-480V, 3 PH, FD	99	C1
105	380-480	3	PID075014FD	VFD, NEMA 1, 75HP, 380-480V, 3 PH, FD	99	C1
130	380-480	3	PID100014FD	VFD, NEMA 1, 100HP, 380-480V, 3 PH, FD	143	C2
160	380-480	3	PID125014FD	VFD, NEMA 1, 125HP, 380-480V, 3 PH, FD	143	C2
1.7	525-600	3	PID001015FD	VFD, NEMA 1, 1HP, 525-600V, 3 PH, FD	19	A3+FD
2.7	525-600	3	PID002015FD	VFD, NEMA 1, 2HP, 525-600V, 3 PH, FD	19	A3+FD
3.9	525-600	3	PID003015FD	VFD, NEMA 1, 3HP, 525-600V, 3 PH, FD	19	A3+FD
6.1	525-600	3	PID005015FD	VFD, NEMA 1, 5HP, 525-600V, 3 PH, FD	19	A3+FD
9	525-600	3	PID007515FD	VFD, NEMA 1, 7.5HP, 525-600V, 3 PH, FD	19	A3+FD
11	525-600	3	PID010015FD	VFD, NEMA 1, 10HP, 525-600V, 3 PH, FD	19	A3+FD
18	525-600	3	PID015015FD	VFD, NEMA 1, 15HP, 525-600V, 3 PH, FD	51	B1
22	525-600	3	PID020015FD	VFD, NEMA 1, 20HP, 525-600V, 3 PH, FD	51	B1
27	525-600	3	PID025015FD	VFD, NEMA 1, 25HP, 525-600V, 3 PH, FD	51	B1
34	525-600	3	PID030015FD	VFD, NEMA 1, 30HP, 525-600V, 3 PH, FD	60	B2
41	525-600	3	PID040015FD	VFD, NEMA 1, 40HP, 525-600V, 3 PH, FD	60	B2
52	525-600	3	PID050015FD	VFD, NEMA 1, 50HP, 525-600V, 3 PH, FD	99	C1
62	525-600	3	PID060015FD	VFD, NEMA 1, 60HP, 525-600V, 3 PH, FD	99	C1
83	525-600	3	PID075015FD	VFD, NEMA 1, 75HP, 525-600V, 3 PH, FD	99	C1
100	525-600	3	PID100015FD	VFD, NEMA 1, 100HP, 525-600V, 3 PH, FD	143	C2
131	525-600	3	PID125015FD	VFD, NEMA 1, 125HP, 525-600V, 3 PH, FD	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 3R Enclosure (No Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001033ND	VFD, NEMA 3R, 1HP, 200-240V, 3 PH, ND	31	A5
7.5	200-240	3	PID002033ND	VFD, NEMA 3R, 2HP, 200-240V, 3 PH, ND	31	A5
10.6	200-240	3	PID003033ND	VFD, NEMA 3R, 3HP, 200-240V, 3 PH, ND	31	A5
16.7	200-240	3	PID005033ND	VFD, NEMA 3R, 5HP, 200-240V, 3 PH, ND	31	A5
24.2	200-240	3	PID007533ND	VFD, NEMA 3R, 7.5HP, 200-240V, 3 PH, ND	51	B1
30.8	200-240	3	PID010033ND	VFD, NEMA 3R, 10HP, 200-240V, 3 PH, ND	60	B2
46.2	200-240	3	PID015033ND	VFD, NEMA 3R, 15HP, 200-240V, 3 PH, ND	30	B3
59.4	200-240	3	PID020033ND	VFD, NEMA 3R, 20HP, 200-240V, 3 PH, ND	60	B2
74.8	200-240	3	PID025033ND	VFD, NEMA 3R, 25HP, 200-240V, 3 PH, ND	99	C1
88	200-240	3	PID030033ND	VFD, NEMA 3R, 30HP, 200-240V, 3 PH, ND	99	C1
115	200-240	3	PID040033ND	VFD, NEMA 3R, 40HP, 200-240V, 3 PH, ND	99	C1
143	200-240	3	PID050033ND	VFD, NEMA 3R, 50HP, 200-240V, 3 PH, ND	143	C2
170	200-240	3	PID060033ND	VFD, NEMA 3R, 60HP, 200-240V, 3 PH, ND	143	C2
2.1	380-480	3	PID001034ND	VFD, NEMA 3R, 1HP, 380-480V, 3 PH, ND	24	A5
3.4	380-480	3	PID002034ND	VFD, NEMA 3R, 2HP, 380-480V, 3 PH, ND	24	A5
4.8	380-480	3	PID003034ND	VFD, NEMA 3R, 3HP, 380-480V, 3 PH, ND	24	A5
8.2	380-480	3	PID005034ND	VFD, NEMA 3R, 5HP, 380-480V, 3 PH, ND	24	A5
11	380-480	3	PID007534ND	VFD, NEMA 3R, 7.5HP, 380-480V, 3 PH, ND	31	A5
14.5	380-480	3	PID010034ND	VFD, NEMA 3R, 10HP, 380-480V, 3 PH, ND	31	A5
21	380-480	3	PID015034ND	VFD, NEMA 3R, 15HP, 380-480V, 3 PH, ND	51	B1
27	380-480	3	PID020034ND	VFD, NEMA 3R, 20HP, 380-480V, 3 PH, ND	51	B1
34	380-480	3	PID025034ND	VFD, NEMA 3R, 25HP, 380-480V, 3 PH, ND	51	B1
40	380-480	3	PID030034ND	VFD, NEMA 3R, 30HP, 380-480V, 3 PH, ND	60	B2
52	380-480	3	PID040034ND	VFD, NEMA 3R, 40HP, 380-480V, 3 PH, ND	60	B2
65	380-480	3	PID050034ND	VFD, NEMA 3R, 50HP, 380-480V, 3 PH, ND	99	C1
80	380-480	3	PID060034ND	VFD, NEMA 3R, 60HP, 380-480V, 3 PH, ND	99	C1
105	380-480	3	PID075034ND	VFD, NEMA 3R, 75HP, 380-480V, 3 PH, ND	99	C1
130	380-480	3	PID100034ND	VFD, NEMA 3R, 100HP, 380-480V, 3 PH, ND	143	C2
160	380-480	3	PID125034ND	VFD, NEMA 3R, 125HP, 380-480V, 3 PH, ND	143	C2
1.7	525-600	3	PID001035ND	VFD, NEMA 3R, 1HP, 525-600V, 3 PH, ND	31	A5
2.7	525-600	3	PID002035ND	VFD, NEMA 3R, 2HP, 525-600V, 3 PH, ND	31	A5
3.9	525-600	3	PID003035ND	VFD, NEMA 3R, 3HP, 525-600V, 3 PH, ND	31	A5
6.1	525-600	3	PID005035ND	VFD, NEMA 3R, 5HP, 525-600V, 3 PH, ND	31	A5
9	525-600	3	PID007535ND	VFD, NEMA 3R, 7.5HP, 525-600V, 3 PH, ND	31	A5
11	525-600	3	PID010035ND	VFD, NEMA 3R, 10HP, 525-600V, 3 PH, ND	31	A5
18	525-600	3	PID015035ND	VFD, NEMA 3R, 15HP, 525-600V, 3 PH, ND	51	B1
22	525-600	3	PID020035ND	VFD, NEMA 3R, 20HP, 525-600V, 3 PH, ND	51	B1
27	525-600	3	PID025035ND	VFD, NEMA 3R, 25HP, 525-600V, 3 PH, ND	51	B1
34	525-600	3	PID030035ND	VFD, NEMA 3R, 30HP, 525-600V, 3 PH, ND	60	B2
41	525-600	3	PID040035ND	VFD, NEMA 3R, 40HP, 525-600V, 3 PH, ND	60	B2
52	525-600	3	PID050035ND	VFD, NEMA 3R, 50HP, 525-600V, 3 PH, ND	99	C1
62	525-600	3	PID060035ND	VFD, NEMA 3R, 60HP, 525-600V, 3 PH, ND	99	C1
83	525-600	3	PID075035ND	VFD, NEMA 3R, 75HP, 525-600V, 3 PH, ND	99	C1
100	525-600	3	PID100035ND	VFD, NEMA 3R, 100HP, 525-600V, 3 PH, ND	143	C2
131	525-600	3	PID125035ND	VFD, NEMA 3R, 125HP, 525-600V, 3 PH, ND	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 3R Enclosure (Fused Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001033FD	VFD, NEMA 3R, 1HP, 200-240V, 3 PH, FD	31	A5
7.5	200-240	3	PID002033FD	VFD, NEMA 3R, 2HP, 200-240V, 3 PH, FD	31	A5
10.6	200-240	3	PID003033FD	VFD, NEMA 3R, 3HP, 200-240V, 3 PH, FD	31	A5
16.7	200-240	3	PID005033FD	VFD, NEMA 3R, 5HP, 200-240V, 3 PH, FD	31	A5
24.2	200-240	3	PID007533FD	VFD, NEMA 3R, 7.5HP, 200-240V, 3 PH, FD	51	B1
30.8	200-240	3	PID010033FD	VFD, NEMA 3R, 10HP, 200-240V, 3 PH, FD	60	B2
46.2	200-240	3	PID015033FD	VFD, NEMA 3R, 15HP, 200-240V, 3 PH, FD	30	B3
59.4	200-240	3	PID020033FD	VFD, NEMA 3R, 20HP, 200-240V, 3 PH, FD	60	B2
74.8	200-240	3	PID025033FD	VFD, NEMA 3R, 25HP, 200-240V, 3 PH, FD	99	C1
88	200-240	3	PID030033FD	VFD, NEMA 3R, 30HP, 200-240V, 3 PH, FD	99	C1
115	200-240	3	PID040033FD	VFD, NEMA 3R, 40HP, 200-240V, 3 PH, FD	99	C1
143	200-240	3	PID050033FD	VFD, NEMA 3R, 50HP, 200-240V, 3 PH, FD	143	C2
170	200-240	3	PID060033FD	VFD, NEMA 3R, 60HP, 200-240V, 3 PH, FD	143	C2
2.1	380-480	3	PID001034FD	VFD, NEMA 3R, 1HP, 380-480V, 3 PH, FD	31	A4
3.4	380-480	3	PID002034FD	VFD, NEMA 3R, 2HP, 380-480V, 3 PH, FD	31	A4
4.8	380-480	3	PID003034FD	VFD, NEMA 3R, 3HP, 380-480V, 3 PH, FD	31	A4
8.2	380-480	3	PID005034FD	VFD, NEMA 3R, 5HP, 380-480V, 3 PH, FD	31	A4
11	380-480	3	PID007534FD	VFD, NEMA 3R, 7.5HP, 380-480V, 3 PH, FD	31	A5
14.5	380-480	3	PID010034FD	VFD, NEMA 3R, 10HP, 380-480V, 3 PH, FD	31	A5
21	380-480	3	PID015034FD	VFD, NEMA 3R, 15HP, 380-480V, 3 PH, FD	51	B1
27	380-480	3	PID020034FD	VFD, NEMA 3R, 20HP, 380-480V, 3 PH, FD	51	B1
34	380-480	3	PID025034FD	VFD, NEMA 3R, 25HP, 380-480V, 3 PH, FD	51	B1
40	380-480	3	PID030034FD	VFD, NEMA 3R, 30HP, 380-480V, 3 PH, FD	60	B2
52	380-480	3	PID040034FD	VFD, NEMA 3R, 40HP, 380-480V, 3 PH, FD	60	B2
65	380-480	3	PID050034FD	VFD, NEMA 3R, 50HP, 380-480V, 3 PH, FD	99	C1
80	380-480	3	PID060034FD	VFD, NEMA 3R, 60HP, 380-480V, 3 PH, FD	99	C1
105	380-480	3	PID075034FD	VFD, NEMA 3R, 75HP, 380-480V, 3 PH, FD	99	C1
130	380-480	3	PID100034FD	VFD, NEMA 3R, 100HP, 380-480V, 3 PH, FD	143	C2
160	380-480	3	PID125034FD	VFD, NEMA 3R, 125HP, 380-480V, 3 PH, FD	143	C2
1.7	525-600	3	PID001035FD	VFD, NEMA 3R, 1HP, 525-600V, 3 PH, FD	31	A5
2.7	525-600	3	PID002035FD	VFD, NEMA 3R, 2HP, 525-600V, 3 PH, FD	31	A5
3.9	525-600	3	PID003035FD	VFD, NEMA 3R, 3HP, 525-600V, 3 PH, FD	31	A5
6.1	525-600	3	PID005035FD	VFD, NEMA 3R, 5HP, 525-600V, 3 PH, FD	31	A5
9	525-600	3	PID007535FD	VFD, NEMA 3R, 7.5HP, 525-600V, 3 PH, FD	31	A5
11	525-600	3	PID010035FD	VFD, NEMA 3R, 10HP, 525-600V, 3 PH, FD	31	A5
18	525-600	3	PID015035FD	VFD, NEMA 3R, 15HP, 525-600V, 3 PH, FD	51	B1
22	525-600	3	PID020035FD	VFD, NEMA 3R, 20HP, 525-600V, 3 PH, FD	51	B1
27	525-600	3	PID025035FD	VFD, NEMA 3R, 25HP, 525-600V, 3 PH, FD	51	B1
34	525-600	3	PID030035FD	VFD, NEMA 3R, 30HP, 525-600V, 3 PH, FD	60	B2
41	525-600	3	PID040035FD	VFD, NEMA 3R, 40HP, 525-600V, 3 PH, FD	60	B2
52	525-600	3	PID050035FD	VFD, NEMA 3R, 50HP, 525-600V, 3 PH, FD	99	C1
62	525-600	3	PID060035FD	VFD, NEMA 3R, 60HP, 525-600V, 3 PH, FD	99	C1
83	525-600	3	PID075035FD	VFD, NEMA 3R, 75HP, 525-600V, 3 PH, FD	99	C1
100	525-600	3	PID100035FD	VFD, NEMA 3R, 100HP, 525-600V, 3 PH, FD	143	C2
131	525-600	3	PID125035FD	VFD, NEMA 3R, 125HP, 525-600V, 3 PH, FD	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 4X Enclosure (No Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001043ND	VFD, NEMA 4X, 1HP, 200-240V, 3 PH, ND	31	A5
7.5	200-240	3	PID002043ND	VFD, NEMA 4X, 2HP, 200-240V, 3 PH, ND	31	A5
10.6	200-240	3	PID003043ND	VFD, NEMA 4X, 3HP, 200-240V, 3 PH, ND	31	A5
16.7	200-240	3	PID005043ND	VFD, NEMA 4X, 5HP, 200-240V, 3 PH, ND	31	A5
24.2	200-240	3	PID007543ND	VFD, NEMA 4X, 7.5HP, 200-240V, 3 PH, ND	51	B1
30.8	200-240	3	PID010043ND	VFD, NEMA 4X, 10HP, 200-240V, 3 PH, ND	60	B2
46.2	200-240	3	PID015043ND	VFD, NEMA 4X, 15HP, 200-240V, 3 PH, ND	30	B3
59.4	200-240	3	PID020043ND	VFD, NEMA 4X, 20HP, 200-240V, 3 PH, ND	60	B2
74.8	200-240	3	PID025043ND	VFD, NEMA 4X, 25HP, 200-240V, 3 PH, ND	99	C1
88	200-240	3	PID030043ND	VFD, NEMA 4X, 30HP, 200-240V, 3 PH, ND	99	C1
115	200-240	3	PID040043ND	VFD, NEMA 4X, 40HP, 200-240V, 3 PH, ND	99	C1
143	200-240	3	PID050043ND	VFD, NEMA 4X, 50HP, 200-240V, 3 PH, ND	143	C2
170	200-240	3	PID060043ND	VFD, NEMA 4X, 60HP, 200-240V, 3 PH, ND	143	C2
2.1	380-480	3	PID001044ND	VFD, NEMA 4X, 1HP, 380-480V, 3 PH, ND	24	A5
3.4	380-480	3	PID002044ND	VFD, NEMA 4X, 2HP, 380-480V, 3 PH, ND	24	A5
4.8	380-480	3	PID003044ND	VFD, NEMA 4X, 3HP, 380-480V, 3 PH, ND	24	A5
8.2	380-480	3	PID005044ND	VFD, NEMA 4X, 5HP, 380-480V, 3 PH, ND	24	A5
11	380-480	3	PID007544ND	VFD, NEMA 4X, 7.5HP, 380-480V, 3 PH, ND	31	A5
14.5	380-480	3	PID010044ND	VFD, NEMA 4X, 10HP, 380-480V, 3 PH, ND	31	A5
21	380-480	3	PID015044ND	VFD, NEMA 4X, 15HP, 380-480V, 3 PH, ND	51	B1
27	380-480	3	PID020044ND	VFD, NEMA 4X, 20HP, 380-480V, 3 PH, ND	51	B1
34	380-480	3	PID025044ND	VFD, NEMA 4X, 25HP, 380-480V, 3 PH, ND	51	B1
40	380-480	3	PID030044ND	VFD, NEMA 4X, 30HP, 380-480V, 3 PH, ND	60	B2
52	380-480	3	PID040044ND	VFD, NEMA 4X, 40HP, 380-480V, 3 PH, ND	60	B2
65	380-480	3	PID050044ND	VFD, NEMA 4X, 50HP, 380-480V, 3 PH, ND	99	C1
80	380-480	3	PID060044ND	VFD, NEMA 4X, 60HP, 380-480V, 3 PH, ND	99	C1
105	380-480	3	PID075044ND	VFD, NEMA 4X, 75HP, 380-480V, 3 PH, ND	99	C1
130	380-480	3	PID100044ND	VFD, NEMA 4X, 100HP, 380-480V, 3 PH, ND	143	C2
160	380-480	3	PID125044ND	VFD, NEMA 4X, 125HP, 380-480V, 3 PH, ND	143	C2
1.7	525-600	3	PID001045ND	VFD, NEMA 4X, 1HP, 525-600V, 3 PH, ND	31	A5
2.7	525-600	3	PID002045ND	VFD, NEMA 4X, 2HP, 525-600V, 3 PH, ND	31	A5
3.9	525-600	3	PID003045ND	VFD, NEMA 4X, 3HP, 525-600V, 3 PH, ND	31	A5
6.1	525-600	3	PID005045ND	VFD, NEMA 4X, 5HP, 525-600V, 3 PH, ND	31	A5
9	525-600	3	PID007545ND	VFD, NEMA 4X, 7.5HP, 525-600V, 3 PH, ND	31	A5
11	525-600	3	PID010045ND	VFD, NEMA 4X, 10HP, 525-600V, 3 PH, ND	31	A5
18	525-600	3	PID015045ND	VFD, NEMA 4X, 15HP, 525-600V, 3 PH, ND	51	B1
22	525-600	3	PID020045ND	VFD, NEMA 4X, 20HP, 525-600V, 3 PH, ND	51	B1
27	525-600	3	PID025045ND	VFD, NEMA 4X, 25HP, 525-600V, 3 PH, ND	51	B1
34	525-600	3	PID030045ND	VFD, NEMA 4X, 30HP, 525-600V, 3 PH, ND	60	B2
41	525-600	3	PID040045ND	VFD, NEMA 4X, 40HP, 525-600V, 3 PH, ND	60	B2
52	525-600	3	PID050045ND	VFD, NEMA 4X, 50HP, 525-600V, 3 PH, ND	99	C1
62	525-600	3	PID060045ND	VFD, NEMA 4X, 60HP, 525-600V, 3 PH, ND	99	C1
83	525-600	3	PID075045ND	VFD, NEMA 4X, 75HP, 525-600V, 3 PH, ND	99	C1
100	525-600	3	PID100045ND	VFD, NEMA 4X, 100HP, 525-600V, 3 PH, ND	143	C2
131	525-600	3	PID125045ND	VFD, NEMA 4X, 125HP, 525-600V, 3 PH, ND	143	C2

\*Select drives by S.F. amps of pump motor

**NEMA 4X Enclosure (Fused Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001043FD	VFD, NEMA 4X, 1HP, 200-240V, 3 PH, FD	31	A5
7.5	200-240	3	PID002043FD	VFD, NEMA 4X, 2HP, 200-240V, 3 PH, FD	31	A5
10.6	200-240	3	PID003043FD	VFD, NEMA 4X, 3HP, 200-240V, 3 PH, FD	31	A5
16.7	200-240	3	PID005043FD	VFD, NEMA 4X, 5HP, 200-240V, 3 PH, FD	31	A5
24.2	200-240	3	PID007543FD	VFD, NEMA 4X, 7.5HP, 200-240V, 3 PH, FD	51	B1
30.8	200-240	3	PID010043FD	VFD, NEMA 4X, 10HP, 200-240V, 3 PH, FD	60	B2
46.2	200-240	3	PID015043FD	VFD, NEMA 4X, 15HP, 200-240V, 3 PH, FD	30	B3
59.4	200-240	3	PID020043FD	VFD, NEMA 4X, 20HP, 200-240V, 3 PH, FD	60	B2
74.8	200-240	3	PID025043FD	VFD, NEMA 4X, 25HP, 200-240V, 3 PH, FD	99	C1
88	200-240	3	PID030043FD	VFD, NEMA 4X, 30HP, 200-240V, 3 PH, FD	99	C1
115	200-240	3	PID040043FD	VFD, NEMA 4X, 40HP, 200-240V, 3 PH, FD	99	C1
143	200-240	3	PID050043FD	VFD, NEMA 4X, 50HP, 200-240V, 3 PH, FD	143	C2
170	200-240	3	PID060043FD	VFD, NEMA 4X, 60HP, 200-240V, 3 PH, FD	143	C2
2.1	380-480	3	PID001044FD	VFD, NEMA 4X, 1HP, 380-480V, 3 PH, FD	31	A4
3.4	380-480	3	PID002044FD	VFD, NEMA 4X, 2HP, 380-480V, 3 PH, FD	31	A4
4.8	380-480	3	PID003044FD	VFD, NEMA 4X, 3HP, 380-480V, 3 PH, FD	31	A4
8.2	380-480	3	PID005044FD	VFD, NEMA 4X, 5HP, 380-480V, 3 PH, FD	31	A4
11	380-480	3	PID007544FD	VFD, NEMA 4X, 7.5HP, 380-480V, 3 PH, FD	31	A5
14.5	380-480	3	PID010044FD	VFD, NEMA 4X, 10HP, 380-480V, 3 PH, FD	31	A5
21	380-480	3	PID015044FD	VFD, NEMA 4X, 15HP, 380-480V, 3 PH, FD	51	B1
27	380-480	3	PID020044FD	VFD, NEMA 4X, 20HP, 380-480V, 3 PH, FD	51	B1
34	380-480	3	PID025044FD	VFD, NEMA 4X, 25HP, 380-480V, 3 PH, FD	51	B1
40	380-480	3	PID030044FD	VFD, NEMA 4X, 30HP, 380-480V, 3 PH, FD	60	B2
52	380-480	3	PID040044FD	VFD, NEMA 4X, 40HP, 380-480V, 3 PH, FD	60	B2
65	380-480	3	PID050044FD	VFD, NEMA 4X, 50HP, 380-480V, 3 PH, FD	99	C1
80	380-480	3	PID060044FD	VFD, NEMA 4X, 60HP, 380-480V, 3 PH, FD	99	C1
105	380-480	3	PID075044FD	VFD, NEMA 4X, 75HP, 380-480V, 3 PH, FD	99	C1
130	380-480	3	PID100044FD	VFD, NEMA 4X, 100HP, 380-480V, 3 PH, FD	143	C2
160	380-480	3	PID125044FD	VFD, NEMA 4X, 125HP, 380-480V, 3 PH, FD	143	C2
1.7	525-600	3	PID001045FD	VFD, NEMA 4X, 1HP, 525-600V, 3 PH, FD	31	A5
2.7	525-600	3	PID002045FD	VFD, NEMA 4X, 2HP, 525-600V, 3 PH, FD	31	A5
3.9	525-600	3	PID003045FD	VFD, NEMA 4X, 3HP, 525-600V, 3 PH, FD	31	A5
6.1	525-600	3	PID005045FD	VFD, NEMA 4X, 5HP, 525-600V, 3 PH, FD	31	A5
9	525-600	3	PID007545FD	VFD, NEMA 4X, 7.5HP, 525-600V, 3 PH, FD	31	A5
11	525-600	3	PID010045FD	VFD, NEMA 4X, 10HP, 525-600V, 3 PH, FD	31	A5
18	525-600	3	PID015045FD	VFD, NEMA 4X, 15HP, 525-600V, 3 PH, FD	51	B1
22	525-600	3	PID020045FD	VFD, NEMA 4X, 20HP, 525-600V, 3 PH, FD	51	B1
27	525-600	3	PID025045FD	VFD, NEMA 4X, 25HP, 525-600V, 3 PH, FD	51	B1
34	525-600	3	PID030045FD	VFD, NEMA 4X, 30HP, 525-600V, 3 PH, FD	60	B2
41	525-600	3	PID040045FD	VFD, NEMA 4X, 40HP, 525-600V, 3 PH, FD	60	B2
52	525-600	3	PID050045FD	VFD, NEMA 4X, 50HP, 525-600V, 3 PH, FD	99	C1
62	525-600	3	PID060045FD	VFD, NEMA 4X, 60HP, 525-600V, 3 PH, FD	99	C1
83	525-600	3	PID075045FD	VFD, NEMA 4X, 75HP, 525-600V, 3 PH, FD	99	C1
100	525-600	3	PID100045FD	VFD, NEMA 4X, 100HP, 525-600V, 3 PH, FD	143	C2
131	525-600	3	PID125045FD	VFD, NEMA 4X, 125HP, 525-600V, 3 PH, FD	143	C2

\*Select drives by S.F. amps of pump motor

**Open Chassis (IP20, No Disconnect)**

Output Amps*	Input Voltage	Input Phase	Pentair Part Number	Part Description	Weight	Frame
4.6	200-240	3	PID001003ND	VFD, OPEN, 1HP, 200-240V, 3 PH, ND	11	A2
7.5	200-240	3	PID002003ND	VFD, OPEN, 2HP, 200-240V, 3 PH, ND	11	A2
10.6	200-240	3	PID003003ND	VFD, OPEN, 3HP, 200-240V, 3 PH, ND	11	A2
16.7	200-240	3	PID005003ND	VFD, OPEN, 5HP, 200-240V, 3 PH, ND	15	A3
24.2	200-240	3	PID007503ND	VFD, OPEN, 7.5HP, 200-240V, 3 PH, ND	51	B1
30.8	200-240	3	PID010003ND	VFD, OPEN, 10HP, 200-240V, 3 PH, ND	60	B2
46.2	200-240	3	PID015003ND	VFD, OPEN, 15HP, 200-240V, 3 PH, ND	30	B3
59.4	200-240	3	PID020003ND	VFD, OPEN, 20HP, 200-240V, 3 PH, ND	60	B2
74.8	200-240	3	PID025003ND	VFD, OPEN, 25HP, 200-240V, 3 PH, ND	99	C1
88	200-240	3	PID030003ND	VFD, OPEN, 30HP, 200-240V, 3 PH, ND	99	C1
115	200-240	3	PID040003ND	VFD, OPEN, 40HP, 200-240V, 3 PH, ND	99	C1
143	200-240	3	PID050003ND	VFD, OPEN, 50HP, 200-240V, 3 PH, ND	143	C2
170	200-240	3	PID060003ND	VFD, OPEN, 60HP, 200-240V, 3 PH, ND	143	C2
2.1	380-480	3	PID001004ND	VFD, OPEN, 1HP, 380-480V, 3 PH, ND	11	A2
3.4	380-480	3	PID002004ND	VFD, OPEN, 2HP, 380-480V, 3 PH, ND	11	A2
4.8	380-480	3	PID003004ND	VFD, OPEN, 3HP, 380-480V, 3 PH, ND	11	A2
8.2	380-480	3	PID005004ND	VFD, OPEN, 5HP, 380-480V, 3 PH, ND	11	A2
11	380-480	3	PID007504ND	VFD, OPEN, 7.5HP, 380-480V, 3 PH, ND	15	A3
14.5	380-480	3	PID010004ND	VFD, OPEN, 10HP, 380-480V, 3 PH, ND	15	A3
21	380-480	3	PID015004ND	VFD, OPEN, 15HP, 380-480V, 3 PH, ND	30	B3
27	380-480	3	PID020004ND	VFD, OPEN, 20HP, 380-480V, 3 PH, ND	30	B3
34	380-480	3	PID025004ND	VFD, OPEN, 25HP, 380-480V, 3 PH, ND	30	B3
40	380-480	3	PID030004ND	VFD, OPEN, 30HP, 380-480V, 3 PH, ND	53	B4
52	380-480	3	PID040004ND	VFD, OPEN, 40HP, 380-480V, 3 PH, ND	53	B4
65	380-480	3	PID050004ND	VFD, OPEN, 50HP, 380-480V, 3 PH, ND	53	B4
80	380-480	3	PID060004ND	VFD, OPEN, 60HP, 380-480V, 3 PH, ND	77	C3
105	380-480	3	PID075004ND	VFD, OPEN, 75HP, 380-480V, 3 PH, ND	77	C3
130	380-480	3	PID100004ND	VFD, OPEN, 100HP, 380-480V, 3 PH, ND	110	C4
160	380-480	3	PID125004ND	VFD, OPEN, 125HP, 380-480V, 3 PH, ND	110	C4
1.7	525-600	3	PID001005ND	VFD, OPEN, 1HP, 525-600V, 3 PH, ND	15	A3
2.7	525-600	3	PID002005ND	VFD, OPEN, 2HP, 525-600V, 3 PH, ND	15	A3
3.9	525-600	3	PID003005ND	VFD, OPEN, 3HP, 525-600V, 3 PH, ND	15	A3
6.1	525-600	3	PID005005ND	VFD, OPEN, 5HP, 525-600V, 3 PH, ND	15	A3
9	525-600	3	PID007505ND	VFD, OPEN, 7.5HP, 525-600V, 3 PH, ND	15	A3
11	525-600	3	PID010005ND	VFD, OPEN, 10HP, 525-600V, 3 PH, ND	15	A3
18	525-600	3	PID015005ND	VFD, OPEN, 15HP, 525-600V, 3 PH, ND	30	B3
22	525-600	3	PID020005ND	VFD, OPEN, 20HP, 525-600V, 3 PH, ND	30	B3
27	525-600	3	PID025005ND	VFD, OPEN, 25HP, 525-600V, 3 PH, ND	30	B3
34	525-600	3	PID030005ND	VFD, OPEN, 30HP, 525-600V, 3 PH, ND	53	B4
41	525-600	3	PID040005ND	VFD, OPEN, 40HP, 525-600V, 3 PH, ND	53	B4
52	525-600	3	PID050005ND	VFD, OPEN, 50HP, 525-600V, 3 PH, ND	53	B4
62	525-600	3	PID060005ND	VFD, OPEN, 60HP, 525-600V, 3 PH, ND	77	C3
83	525-600	3	PID075005ND	VFD, OPEN, 75HP, 525-600V, 3 PH, ND	77	C3
100	525-600	3	PID100005ND	VFD, OPEN, 100HP, 525-600V, 3 PH, ND	110	C4
131	525-600	3	PID125005ND	VFD, OPEN, 125HP, 525-600V, 3 PH, ND	110	C4

\*Select drives by S.F. amps of pump motor



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