

PULSE **400BD Series**



A high-performance direct-drive operator with a 180V DC horsepower-rated motor, engineered for large commercial balanced sectional and rolling steel doors.

Features

- **Universal input voltage from 208V to 600V AC (1ph or 3ph)**
- Precise programmable setting for monitored RPM-based gearbox output speed
- Soft start/stop functionality to reduce wear and tear
- LCD screen for setup, monitoring, and troubleshooting
- Optional fully open/home switch
- Manual operation available via standard chain hoist
- Two programmable output relays included
- Motor options: 2HP & 3HP
- Shaft sizes: 1 1/4", 1 1/2" & 2"
- Two-year, one-million-cycle warranty against manufacturing defects

iControls®

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The Pulse 400BD Series from iControls is designed for large **Balanced** sectional and rolling steel doors



Works Globally, Right Out of the Box

The Pulse 400BD is designed to accept universal input voltage from 208V to 600V AC, 1Ph or 3Ph right out of the box for global compatibility. There's no need for a step-down transformer or any additional configuration to achieve the required voltage.

Advanced, Programmable Speed Control

Program the RPM for the gearbox output of the open cycle and close cycle for constant door speeds that suit the installation. With its speed detecting encoder, the Pulse 400BD accommodates for the input voltage and provides reliable speed control throughout operation, even if the voltages should fluctuate.

High Power DC Motors

Each unit is equipped with 180V DC motors rated at 2 HP or 3 HP, paired with gearboxes in a variety of sizes and ratios.

Adjustable Soft Start/Soft Stop

This feature offers smooth, controlled acceleration and deceleration of the door and helps prolong the life of its mechanical parts. It also aids in the prevention of cable throw. The distance of both the acceleration and deceleration can be programmed to match the door requirements as needed.

Programmable Closing Timer

This feature allows to automatically close the door after a selectable delay of 1 to 99 seconds.

Standard Chain-Hoist

The Pulse 400BD includes a standard chain hoist adding enhanced reliability by ensuring manual operation during power interruptions. Simple to use, it engages with a red cord and reengages with a green cord. The Pulse chain hoist prevents downtime, protects operations and delivers peace of mind for businesses needing uninterrupted performance.



Ordering

Pulse 400BD operators are available with 2 HP or 3 HP-rated 180 V DC motors paired with gearboxes supporting 1 1/4", 1 1/2" or 2" hollow shafts. Gearbox ratios available are 40:1, 60:1 and 80:1. A thru-beam sensor is included.

See below for available configurations:

Part Number	Horse Power	Gearbox			Max Output Torque		Cable Length 'YY'
		Shaft Size	Gearbox Size	Gearbox Ratio	N-m	lb-in	
PDC-400BD-300-1.25-40/90-YY	3	1 1/4"	90	40:1	482.6	4,271.1	5, 10, 15, 20 or 25
PDC-400BD-200-1.25-60/90-YY	2	1 1/4"	90	60:1	429	3,796.6	5, 10, 15, 20 or 25
PDC-400BD-300-1.5-40/105-YY	3	1 1/2"	105	40:1	817.7	7,237.2	5, 10, 15, 20 or 25
PDC-400BD-300-1.5-60/105-YY	3	1 1/2"	105	60:1	750.7	6,644	5, 10, 15, 20 or 25
PDC-400BD-200-1.5-80/105-YY	2	1 1/2"	105	80:1	656.8	5,813.5	5, 10, 15, 20 or 25
PDC-400BD-300-2-40/130-YY	3	2"	130	40:1	1,407.5	12,457.5	5, 10, 15, 20 or 25
PDC-400BD-300-2-60/130-YY	3	2"	130	60:1	1,206.4	10,677.8	5, 10, 15, 20 or 25
PDC-400BD-300-2-80/130-YY	3	2"	130	80:1	1,126	9,966	5, 10, 15, 20 or 25

Part number creation for YY: Choose from 5, 10, 15, 20 or 25 feet of cable.

Contact the **iControls** team to help select the ideal motor and gearbox configuration to suit your application

