

Ajusto-Spede® Controllers

MODEL PDC 2000 DIGITAL PRESS DRIVE CONTROLLER



Description

The Model PDC-2000 Dynamatic® Digital Complete Closed Loop Power Press Variable Speed Control System with the optional automatic counter balance pressure adjustment feature is specifically designed to operate eddy current drives on metal forming and powdered metal presses. It is a new concept in eddy current control. Its user-friendly design emerges from years of press control experience by its designers and a desire to continuously improve performance, simplify operation and setup of press drive power controllers. The PDC-2000 is designed to be powered at all times

and merely accept a signal from the AC motor, which indicates that the motor contactor has been closed. The PDC-2000 creates a time delay based on the AC motor current (amps) to determine when the AC motor is up to speed. The controller can identify a problem during AC motor start such as a stalled AC motor or a locked up clutch. This intelligent function helps protect your AC motor and limit the damage to the eddy current drive should there be a problem with the motor or the eddy current clutch assembly.

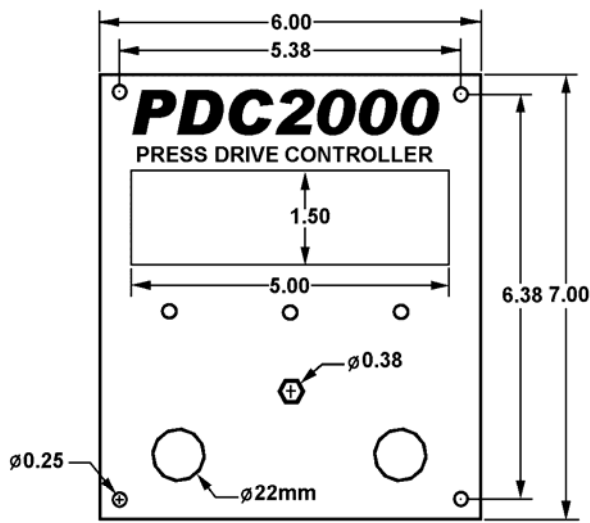
Features	Customer Benefits
Fully digital microprocessor based.	One controller for all types of Eddy-Current drives up to 200 HP.
Universal power input with programmable tachometer input and coil voltage output.	Interchangeable with any Eddy-Current press drive controller.
Modulated coil voltage output with a motor current feedback cut-off control.	No potentiometers to adjust or test equipment needed.
Automatic counter balance pressure adjustment feature based on motor current.	Passive or active counter balance control or display.
Intelligent 2 line by 20 digital fluorescent display for system performance, programming, error messages and status.	No special protection, line reactors, cooling fans or large enclosures.
Local remote or RS-232 input command control of variable speed Eddy-Current drive,	No runaway conditions due to tach signal loss.
Main motor run timer, optional clutch-brake engagement and ram stroke counter for maintenance scheduling.	Built in diagnostics, self-test and safe shutdown.
Programmable motor current monitor and monitor limits for start-up and continuous operation.	Programmable motor HP and strokes per minute calibration for optimum performance.
Drive start-up interlock and forward/reverse motor direction interlock option.	Control flywheel acceleration to limit motor start current.
All parameters programmable from removable keypad. provided.	Fail safe design features.
Low frequency ICBT output.	Modern technology.
Clutch/Brake output.	Can be used for eddy current brake control.

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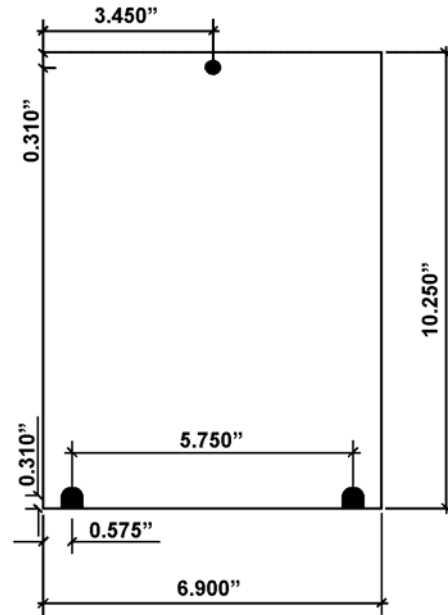
Model PDC-2000 Digital Press Drive Controllers

Specifications

<p>PDC-2000 Controller</p>	<p>Units used with</p> <p>Horsepower range</p> <p>Digital</p> <p>Input, power maximum</p> <p>Output, power maximum</p> <p>Speed regulation 25% to full load change</p> <p>Regulated speed range</p> <p>Enclosure</p> <p>Operator devices (Keypad)</p> <p>Built-in modifications</p> <p>Field modifications</p> <p>Closed Loop speed control</p> <p>Controller protective features</p> <p>Line regulation for +/-10% input line voltage change</p> <p>Thermal drift per degree C</p> <p>Minimum regulated speed range</p> <p>Maximum ambient</p>	<p>AS-14 - 27 Drives AT-280 - 440 Drives DCD-132 - DCD-225 Drives</p> <p>1-200 HP - Standard</p> <p>Standard</p> <p>120/240 volts selectable input</p> <p>45 VDC, 11 Amps, 90 VDC, 11 Amps, OC to 15 Amps</p> <p>0.1% - Standard</p> <p>2:1 - Standard</p> <p>NEMA 1 - Standard</p> <p>Run, Stop button and Run Speed settable reference from the display - Standard</p> <p>Speed control 0.1% regulation, Torque limit, accel/decel - Standard</p> <p>Counter balance press adjustment – Optional</p> <p>Standard</p> <p>Input fuses, low line voltage, line transients, isolated signal circuits output over-current, trip on fault</p> <p>+/-0.3%</p> <p>0%</p> <p>50% of max SPM</p> <p>104° F (40° C) enclosed 149° F (65° C) panel mount</p>
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PDC2000 FLUORESCENT DISPLAY
MOUNTING DIMENSIONS



PDC2000 CONTROLLER
MOUNTING DIMENSIONS