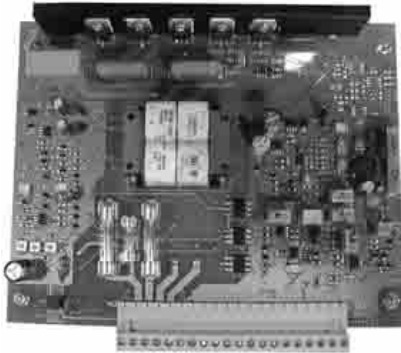


Ajusto-Spede® Controllers

MODEL DSI-700 CONTROLLERS

(Eddy Current Control with torque limit)

Open Chassis



NEMA 4/12



Description

The Model DSI-700 Dynamatic® Analog controller is a high quality, high performance universal eddy-current drive controller capable of providing excitation for the Dynamatic® brand Eddy Current drives as well as similar drives manufactured by others. The DSI-700 may be used with drives ranging from the Fractional Horsepower (FAS) of drives from ¼ to 1½ HP, to the complete Ajusto-Spede® AS brand of integral motor-clutch drives from 1- through 40 HP, as well as the full line of Ajusto-Spede® AT brand drives up to 200 HP. These controllers also provide excellent sources for the Eddy Current Brake series such as the Dynamatic® AS-700 brakes. The DSI-700 is offered in an Original Equipment Manufacturers' (OEM) package as a basic, central

control unit to provide maximum performance at the lowest possible price. It features single circuit board construction with integral heat dissipater for the power components. Only the topside of the circuit board is populated, using hybrid surface-mount as well as through-hole technologies. The controller board is conformably coated to protect components from damage in harsh environments. The controller may be mounted to a substrate panel using four (4) standoff insulators and mounting screws, provided in a plastic pouch. This allows for easy Integration Into larger systems with the addition of the appropriate supporting controls such as starters, switches, and interlocks, on/off controls as required.

Features	Customer Benefits
Selectable input voltage 115/230 VAC single phase 50 Hz or 60 Hz.	Compatible with existing installations.
Selectable 45 VDC or 90 VDC output voltage.	One control for all types of Eddy Current Drives
Adjustable Torque Limit	Enables safe starting of high inertia loads
Single PC surface mount construction with low-component count.	Easily integrated into modern PLC controlled systems.
Conformal coating.	Protection for harsh environments and overall reliability.
Interchangeable with other obsolete Eddy-current controllers.	Small, easily retrofitted package.
Factory set-up.	Easy Start-up.
24 HR service and support.	Minimize downtime.

Ajusto-Spede® Controllers

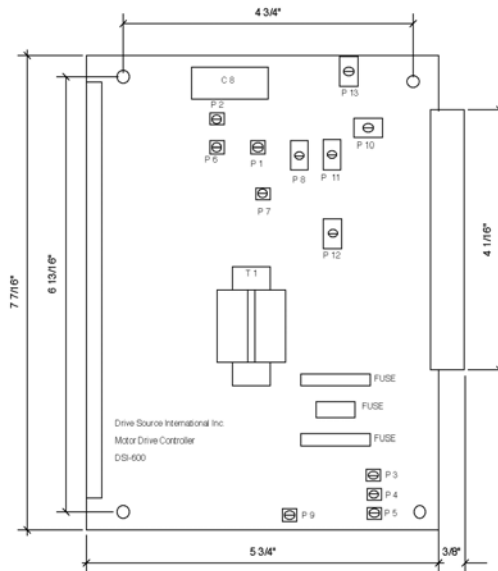
Model DSI-700 Controllers
(Eddy Current Control with Torque Limit)

Specifications

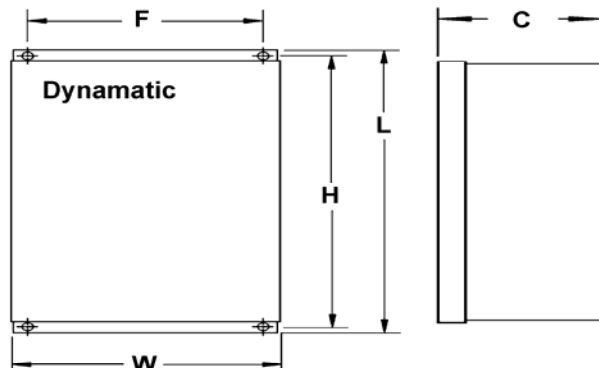
<p>DSI-700 Controller</p>	<p>Units used with</p> <p>Horsepower range</p> <p>Input power, maximum</p> <p>Output power, maximum</p> <p>Speed regulation, no load to full load change</p> <p>Enclosures</p> <p>Built-in modifications</p> <p>Field modifications (1 per unit)</p> <p>Operator devices (on controller)</p> <p>Closed loop speed control</p> <p>Controller protective features</p> <p>Line regulation for +/-6% input line voltage change</p> <p>Thermal drift per degree C</p> <p>Minimum regulated speed range</p> <p>Maximum ambient</p> <p>Standards</p>	<p>AS-14 - 27 Drives AT-140 – 440 Drives DCD-132 - DCD-225 Drives AS-703 – AS-707 Brakes</p> <p>.25 - 200 HP - Standard</p> <p>115/230 VAC, 1 phase, 50/60 Hz</p> <p>45 or 90 VDC, 5.5 Amps</p> <p>0.2% Standard</p> <p>Panel mount – Standard, NEMA 13 - Optional</p> <p>Linear acceleration, fixed braking, torque control</p> <p>Brake circuits, cascade, follower circuits, jogging, threading, torque/speed control and current limit</p> <p>Start and Stop pushbuttons and Run Speed potentiometer - Standard</p> <p>Standard</p> <p>Input fuses, low line voltage, line transients, isolated signal circuits, output over-current, torque limit</p> <p>+/-0.1%</p> <p>+/-0.05%</p> <p>50 RPM</p> <p>104° F (40° C) 158° F (65° C)</p> <p>CSA approved</p>
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Ajusto-Spede® Controllers

DSI-700 Panel Layout



***Mounting studs included but are not shown.



**Wall Mounting
NEMA 13**

Controller Enclosure

Model	Type/Size Controller	A	B	C	F	H	L	W	Weight (Lbs.) ①
DSI-700	Panel Mount	--	--	--	--	--	--	--	5
	NEMA 13	--	--	5.00	8.00	12.25	12.75	10.25	8