

## MODEL DSI-700 UNIVERSAL EDDY-CURRENT SPEED CONTROLLER



### INTRODUCING...

the new DSI-700 speed controller. This controller represents the latest thinking and superior technologies available through many years of experience and innovative design.

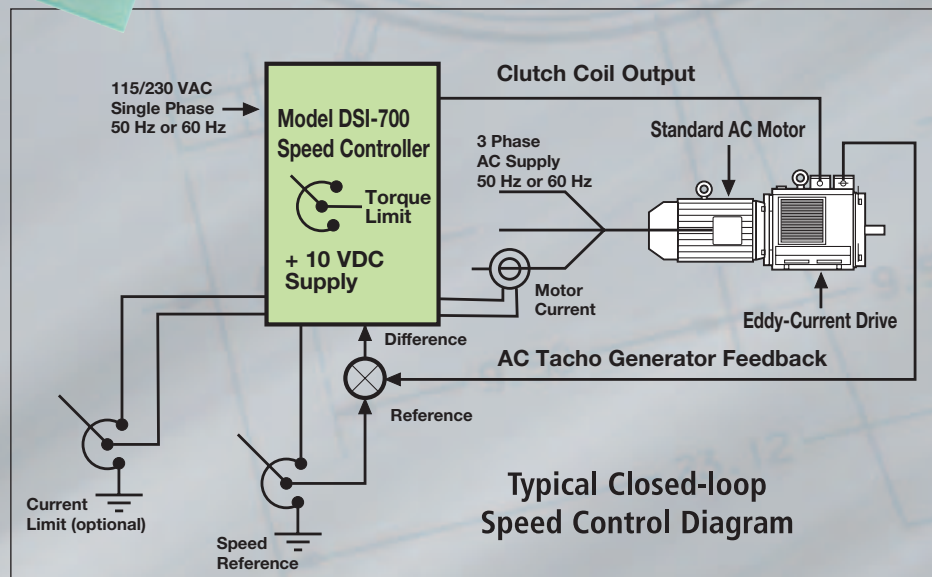
Simple yet versatile, the DSI-700 offers a single board construction with a minimum parts count through surface mount technology insuring overall increased reliability at an economical price.

The DSI-700 has been designed to replace many existing older obsolete Eddy-Current Drive controllers as well as offer to our O.E.M. customers, a cost effective solution.

The DSI-700 provides 5.5 amps DC maximum output with adjustable and selectable output voltages from 45 to 180 VDC.

### ADVANTAGES

- ✕ Improved speed regulation
- ✕ Motor current limit for press drives (standard)
- ✕ Selectable input voltage 115/230 VAC single phase 50 Hz or 60 Hz
- ✕ Selectable/adjustable 45 VDC to 180 VDC output voltage
- ✕ Single PC surface mount construction with low-component count
- ✕ Compact size 7.5" x 6"
- ✕ CuL approved and CE tested
- ✕ Conformal coating for harsh environments and overall reliability
- ✕ Interchangeable with other obsolete Eddy-Current controllers
- ✕ Factory setting for easy start-up
- ✕ 24 HR Emergency Service and Support
- ✕ Low cost superior performance
- ✕ 0-10 VDC, 4-20 mA input (standard)



# DSI-700 Specifications

<b>INPUT CHARACTERISTICS</b>	Supply Voltage	115/230 VAC Single Phase
	Line Frequency	50 Hz or 60 Hz
	Tacho-Generator Frequency	10 Hz to 720 Hz
	Tacho-Generator Voltage	Typically 3 VAC* Min
	Input Current	5.0 Amp
	Speed Reference	0-10 VDC, 4-20 mA, Pot.
	PID Adjustment	Yes
	Min Speed Adjustment	Yes
<b>OUTPUT CHARACTERISTICS</b>	Isolated Inputs	Yes
	Output Voltage @ 115 VAC Input	0-45 to 90 VDC Max
	Output Voltage @ 230 VAC Input	0-180 VDC Max
	Output Current	5.5 Amps
	Speed Variation To Line Voltage Fluctuation	± 6% Change in Line Voltage Equals ± 1% Change In Speed
<b>LOAD REGULATION</b>	Speed Range	Typically 20:1
	Speed Variation with 20% -100% Load Change	0.2% Change In Speed
<b>TEMPERATURE</b>	Ambient Air (Operating)	32°F to 104°F
	Ambient Air	-40°F to 158°F
<b>DIMENSIONS &amp; PHYSICAL CHARACTERISTICS</b>	Height	5.79 In
	Width	7.36 In
	Depth	1.18 In (32 mm)
	Weight (Approximate)	1 Lb. (0.454 Kg)
	Mounting Hardware	Included

\* Consult factory for tacho-generator output specifications particular to your type of Eddy-Current Drive.

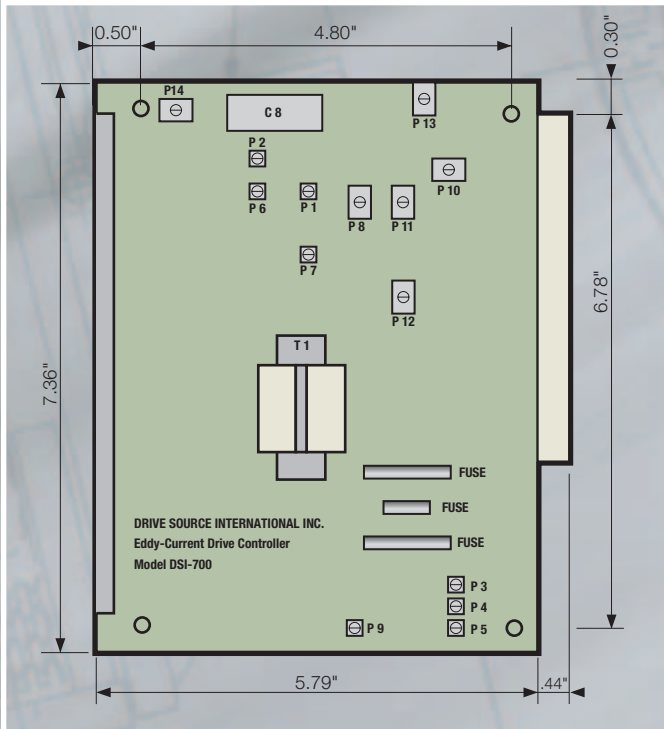
## DSI-700 Available Options:

- ✕ Torque limit via current transformer on motor
- ✕ High power output to max. 50 amps DC
- ✕ Momentary contact start capability
- ✕ External current limit adjustment
- ✕ Wide range of operator controls
- ✕ NEMA 1, 3R, 12 and 4X enclosures

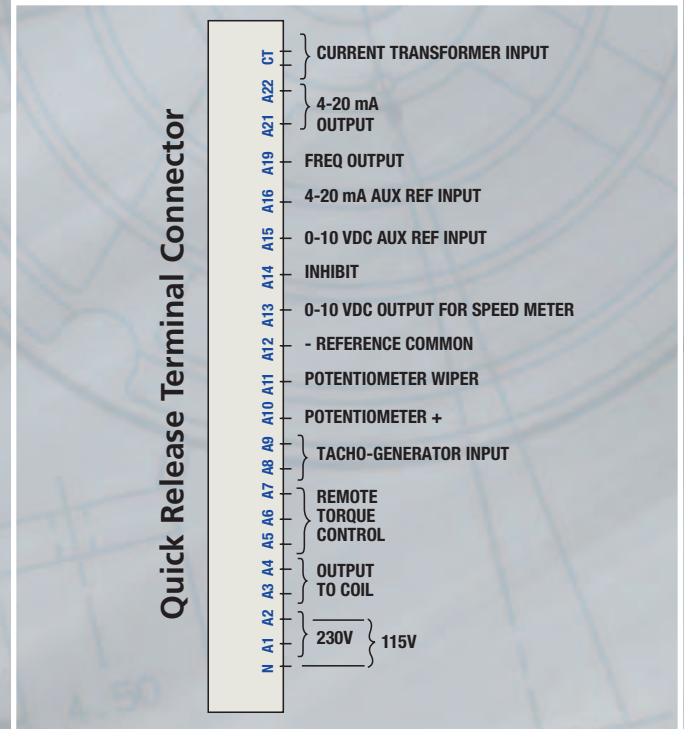
## Manufacturers & Suppliers of:

- ✕ CES Digital Press Drives & Controls
- ✕ Eddy-Current Variable Speed Drives & Controls
- ✕ Water Cooled Clutches & Brakes Up To 3000 Hp
- ✕ AC Variable Frequency Drives
- ✕ AC & DC Motors
- ✕ Eddy-Current Brakes
- ✕ High Speed AC Motors
- ✕ Dynamometers
- ✕ Custom Engineered Controls
- ✕ Mechanical Rebuild & Service
- ✕ Board Repair & Test
- ✕ Quick Ship & 24HR. Service Available

## Board Mounting Dimensions



## Terminal Connections



Service: Dynamatic® Products, Tasc, Torspec, Teco, US Eddy-Current, Louis Allis, Yaskawa, Sterling, Magnetek

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