

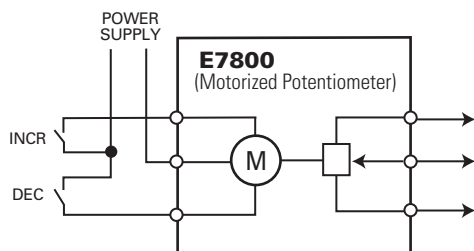
E7800 SERIES

Motorized Potentiometer

CE



Simplified Circuit Diagram



Features & Benefits

FEATURES	BENEFITS
Wire-wound potentiometer	Longer life expectation than carbon potentiometers
Friction clutch	Motor can turn potentiometer against end position continuously, without damaging it
Resistance from 100 Ω to 10 kΩ	Wide range of potentiometers suitable for any governor or AVR
24 V DC version with Adjustable RPM	Simple fine tuning possibility in regulation applications
Built-in dust seal	Long life expectation

Description

The E7800 Motorized Potentiometer is typically used as an interface between increase/decrease contacts and a device requiring control/adjustments by an external potentiometer.

In generator control applications, the E7800 can be used as speed trim of an electronic speed governor, interfacing the synchronizer or the load sharer. It can also be used alone for manual speed adjustment or speed trim of electronic governors, or for remote control of generator voltage, power factor and reactive load (E7800 connected to Automatic Voltage Regulator (AVR)).

Ordering Information

ORDERING NUMBER	SUPPLY VOLTAGE		OUTPUT OPTIONS	SPECIAL FUNCTION
	(VAC)	(VDC)		
E7800.0030	230 V		200 Ω , 1 turn	1 RPM
E7800.0040	230 V		500 Ω , 1 turn	1 RPM
E7800.0050	230 V		1k Ω , 1 turn	1 RPM
E7800.0060	230 V		2k Ω , 1 turn	1 RPM
E7800.0070	230 V		10k Ω , 1 turn	1 RPM
E7800.0080	230 V		5k Ω , 10 turn	2 RPM
E7800.0090	230 V		100 Ω , 10 turn	2 RPM
E7800.0100	230 V		200 Ω , 10 turn	2 RPM
E7800.0200	110/100 V		2k Ω , 1 turn	1 RPM
E7800.0210	110/100 V		10k Ω , 1turn	1 RPM
E7800.0220	24 V		5k Ω , 10 turn	2 RPM
E7800.0230	24 V		100 Ω , 10 turn	2 RPM
E7800.0240	24 V		200 Ω , 10 turn	2 RPM
E7800.0250	24 V		500 Ω , 10 turn	2 RPM
E7800.0260	24 V		1k Ω , 10 turn	2 RPM
E7800.0270	24 V		2k Ω , 10 turn	2 RPM
E7800.0280	24 V		10k Ω , 10 turn	2 RPM
E7800.0290	110/100 V		5k Ω , 10 turn	2 RPM
E7800.0300	110/100 V		100 Ω , 10 turn	2 RPM
E7800.0310	110/100 V		200 Ω , 10 turn	2 RPM
E7800.0320	110/100 V		500 Ω , 10 turn	2 RPM
E7800.0330	110/100 V		1k Ω , 10 turn	2 RPM
E7800.0340	110/100 V		2k Ω , 10 turn	2 RPM
E7800.0350	110/100 V		10k Ω , 10 turn	2 RPM
E7800.0360	230 V		5k Ω , 1 turn	2 RPM
E7800.0370	230 V		100 Ω , 1 turn	2 RPM
E7800.0380	230 V		200 Ω , 1turn	2 RPM
E7800.0390	230 V		500 Ω , 1 turn	2 RPM

E7800 SERIES

Ordering Information (cont.)

ORDERING NUMBER	SUPPLY VOLTAGE)		OUTPUT OPTIONS	SPECIAL FUNCTION
	(VAC)	(VDC)		
E7800.0400	230 V		1kΩ, 1 turn	2 RPM
E7800.0410	230 V		2kΩ, 1 turn	2 RPM
E7800.0420	230 V		10kΩ, 1 turn	2 RPM
E7800.0430	24 V		5kΩ, 1 turn	1 RPM
E7800.0440	24 V		100Ω, 1 turn	1 RPM
E7800.0450	24 V		200Ω, 1 turn	1 RPM
E7800.0460	24 V		500Ω, 1 turn	1 RPM
E7800.0470	24 V		1kΩ, 1 turn	1 RPM
E7800.0480	24 V		2kΩ, 1 turn	1 RPM
E7800.0490	24 V		10kΩ, 1 turn	1 RPM
E7800.0640		24 V	5kΩ, 1 turn	0.8 - 6 RPM
E7800.0650		24 V	100Ω, 1 turn	0.8 - 6 RPM
E7800.0660		24 V	200Ω, 1 turn	0.8 - 6 RPM
E7800.0670		24 V	500Ω, 1 turn	0.8 - 6 RPM
E7800.0680		24 V	1kΩ, 1 turn	0.8 - 6 RPM
E7800.0690		24 V	2kΩ, 1 turn	0.8 - 6 RPM
E7800.0700		24 V	10kΩ, 1 turn	0.8 - 6 RPM
E7800.0710		24 V	5kΩ, 10 turn	0.8 - 6 RPM
E7800.0720		24 V	100Ω, 10 turn	0.8 - 6 RPM
E7800.0730		24 V	200Ω, 10 turn	0.8 - 6 RPM
E7800.0740		24 V	500Ω, 10 turn	0.8 - 6 RPM
E7800.0750		24 V	1kΩ, 10 turn	0.8 - 6 RPM
E7800.0760		24 V	2kΩ, 10 turn	0.8 - 6 RPM
E7800.0770		24 V	10kΩ, 10 turn	0.8 - 6 RPM

The E7800 cannot be used for both AC and DC. The unit must be specified to order. Other voltages and combinations are available on request.

Specifications

Voltage range	AC: 90-120% DC: 75-125%
Consumption	AC: 2.5 VA DC: 2 W
Operating Temperature	-15° C to +70° C
EMC	CE according to EN50081-1 EN50082-1 EN50081-2 EN50082-2 CE, RRR
Approvals	
Burn-in	50 hours before final test
Weight	0.35 kg
Dimensions	H 96 mm (3.8"); W 96 mm (3.8"); D 80 mm (3.1")
Panel cut out	H 92 mm (3.6"); W 92 mm (3.6")

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[E7800.0410](#) [E7800.0720](#) [E7800.0640](#) [E7800.0010](#) [E7800.0120](#) [E7800.0050](#) [E7800.0700](#) [E7800.0710](#)
[E7800.0420](#) [E7800.0770](#) [E7800.0140](#) [E7800.0730](#) [E7800.0670](#) [E7800.0080](#) [E7800.0690](#) [E7800.0360](#) [E7800.0680](#)
[E7800.0740](#) [E7800.0760](#) [E7800.0750](#) [E7800.0130](#) [E7800.0660](#) [E7800.0650](#) [E7800.00](#)