

VARIABLE SPEED DC CONTROL

OMDC-125 Series



- ✓ Dual Voltage 120/240 Vac or 24/36 Vac
- ✓ Adjustable Horsepower Settings
- ✓ Full Wave Bridge Supply
- ✓ 1% Speed Regulation with Armature Voltage Feedback ($\pm 1/2\%$ with Tach Feedback)
- ✓ Adjustable Min and Max Speeds
- ✓ Fixed 0.5 Sec Acceleration
- ✓ 5 k Ω Speed Potentiometer (Leads, Dial and Knob Included)
- ✓ Line Voltage Compensated
- ✓ 50:1 Speed Range
- ✓ Chassis Mount

The OMDC-125 Series variable speed DC Control is a cost efficient, reliable control for PM, shunt wound, and universal motors that incorporates up-to-date design and engineering into a compact package. Installation and field adjustments are facilitated using a barrier type terminal strip and large, easily adjustable trimpots. Adjustable horsepower range: 120 Vac; $1/8$ to $1/2$; 240 Vac; $1/8$ to $1/4$ and $1/4$ to 1. The OMDC-123D-C model operates on low input voltage of 24/36 Vac with an output of 150 mA to 5.5 ADC.

SPECIFICATIONS

Dimensions: 92 W x 108 H x 33 mm D (3.63 x 4.25 x 1.3")

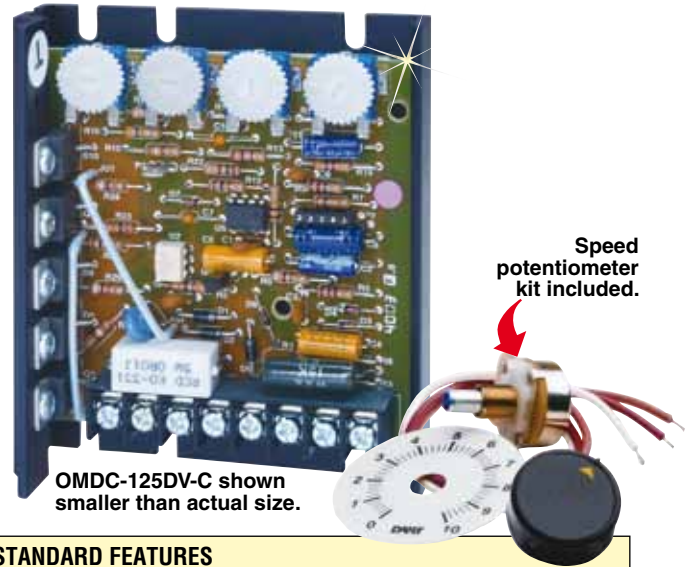
Weight: 227 g (8 oz)

OPERATING CONDITIONS:

Temperature: -10 to 45°C (14 to 113°F)

AC input Voltage: $\pm 10\%$ rated line voltage

Input Frequency: 50/60 Hz



OMDC-125DV-C shown smaller than actual size.

Speed potentiometer kit included.

STANDARD FEATURES

- ✓ Adjustable IR compensation
- ✓ Adjustable current limit
- ✓ Overload capacity (200% for one minute)
- ✓ Transient voltage protection
- ✓ Shunt fields supply provided
- ✓ Voltage following mode
- or DC tachometer follower by supplying ungrounded analog input signal (0 to 12 Vdc)
- ✓ DC tachometer feedback
- ✓ Inhibit circuit permits start and stop without breaking AC lines

AC INPUT 50/60 HZ: 120 Vac SINGLE PHASE INPUT, 0 to 90 Vdc OUTPUT

H.P.	MAX AC AMPS	KVA	MAX ARM* AMPS DC
$1/8$	2.0	0.24	1.6
$1/4$	3.5	0.42	2.7
$1/3$	4.4	0.53	3.4
$1/2$	6.5	0.78	5.0

* Minimum armature Amps: 150 mA DC

240 Vac SINGLE PHASE INPUT, 0 to 180 Vdc OUTPUT

H.P.	MAX AC AMPS	KVA	MAX ARM* AMPS DC
$1/4$	1.8	0.42	1.4
$1/3$	2.2	0.53	1.7
$1/2$	3.3	0.78	2.5
$3/4$	4.8	1.15	3.7
1	6.5	1.56	5.0

To Order

MODEL NO.	HP RANGE	INPUT	OUTPUT	OPTIONS
OMDC-123D-C	150 mA to 5.5 ADC	24 Vac	0 to 20 Vdc	—
		36 Vac	0 to 30 Vdc	
OMDC-123D-C-2A	150 mA to 5.5 ADC	24 Vac	0 to 20 Vdc	Independently adjustable linear accel and decel
		36 Vac	0 to 30 Vdc	
OMDC-123D-C-5	150 mA to 5.5 ADC	24 Vac	0 to 20 Vdc	4 to 20 mA isolated signal follower
		36 Vac	0 to 30 Vdc	
OMDC-125DV-C	$1/8$ to $1/2$ * $1/4$ to 1*	120 Vac 240 Vac	0 to 90 Vdc 0 to 180 Vdc	—
OMDC-125DV-C-2A	$1/8$ to $1/2$ * $1/4$ to 1*	120 Vac 240 Vac	0 to 90 Vdc 0 to 180 Vdc	Independently adjustable linear accel and decel
OMDC-125DV-C-5	$1/8$ to $1/2$ * $1/4$ to 1*	120 Vac 240 Vac	0 to 90 Vdc 0 to 180 Vdc	4 to 20 mA isolated signal follower
OMDC-HS125	Heat sink 178 L x 159 W x 35 mm D (7 x 6.25 x 1.375")			

* UL rating for output amps can be increased from 5.5 to 10.0 Amps with suitable external heat sink.

Comes complete with speed potentiometer, dial and knob and operator's manual.

Ordering Examples: OMDC-123D-C, chassis model speed control for 0 to 30 Vdc motors.

OMDC-125DV-C, dual voltage variable speed control for $1/8$ to 1 horsepower DC motors and OMDC-HS125, heatsink for OMDC-125 speed control for increased Arm Amps usage.