

NEMA 4X WASHDOWN OMEGA™

ANALOG DC SPEED CONTROL

DUAL VOLTAGE DC MOTOR SPEED CONTROL FOR UP TO 2 HP

OMDC-SCR 4X Series



OMDC-125DV200EW-29 washdown duty DC speed control with fwd/break/rev switch in white NEMA 4X enclosure.

Both models shown smaller than actual size.



OMDC-125DV200EB-29-4, washdown duty DC speed control with fwd/break/rev and run/jog switch in black NEMA 4X enclosure.

- NEMA 4X Enclosure for Use in Pharmaceutical and Food Processing
- Available in Black or White NEMA 4X Enclosure
- Dual Voltage 120/240 Vac, 50/60 Hz
- Adjustable Horsepower Settings No Jumpers or Resistors to Change
- Adjustable Minimum and Maximum Speed Limits
- Adjustable Current Limit and IR Compensation
- Adjustable Acceleration and Deceleration
- 1% Speed Regulation
- Line Voltage Compensation

- Overload Capacity: 200% for One Minute
- DC Tachometer Feedback (6V at Base Speed)
- Inhibit Circuit—Permits Start and Stop Without Breaking AC Lines

The OMDC-SCR 4X Series control is a compact, cost efficient, reliable control for PM, shunt wound, and universal DC motors that incorporates up-to-date design and engineering into a compact package. These are direct replacement drives for many obsolete and legacy SCR drives used in pharmaceutical and food processing. Installation and field adjustments are facilitated using a barrier type terminal strip and large, easily adjusted trimpots and adjustable horsepower range.

The cast aluminum powder coated enclosure available in both black and white is rated NEMA 4X for wash down, outdoor and food/sanitary applications. One drive will handle both 120 Vac and 240 Vac source power for motors from 1/4 HP through 2 HP. Standard auto-sensing voltage circuit means no jumper settings or wiring changes are necessary. The drives are fully adjustable across their HP ratings-no extra resistors to purchase or keep track of.

Application:

The OMDC-SCR 4X Series motor speed control is ideal for applications such as: office machinery, conveyors, office packaging equipment, printers, process equipment, centrifuges, and exercise equipment.

SPECIFICATIONS

- AC Input Voltage:** 120 or 230 Vac ±10% rated line voltage
- Output:** 0 to 90 Vdc (1/4 to 1 HP) or 0 to 180 Vdc (1/4 to 2 HP)
amps DC output - maximum continuous 10 amps
- Input Frequency:** 50/60 Hz
- I.R. Compensation:** Adjustable to full range
- Maximum Speed:** Adjustable (60 to 110% of base speed)
- Minimum Speed:** Adjustable (0 to 30% of maximum)
- Accel/Decel:** Adjustable (0.5 to 8 seconds)
- Shunt Field Voltage:** 5 Amp maximum, 100 Vdc at 120 Vac
- Shunt Field Voltage:** 5 Amp maximum, 200 Vdc at 240 Vac
- Speed Control:** 5K Ω speed potentiometer
- Speed Range:** 50:1
- Speed Regulation:** ±1% of base speed
- Temperature Range:** -10 to 40°C ambient (15 to 105°F)
- Transient and Surge Protection:** G-Mov
- Dimensions:** 241 H x 127 W x 141 D mm (9.5 x 5.0 x 5.56")
- Weight:** 1.69 kg (59.5 oz)



OMDC-125DV200EW-29 shown smaller than actual size.

To Order	
MODEL NO.	DESCRIPTION
OMDC-125DV200EB	ON/OFF control, NEMA 4X black enclosure
OMDC-125DV200EB-29	ON/OFF and FWD/BRAKE/REV controls, NEMA 4X black enclosure
OMDC-125DV200EB-29-4	ON/OFF, FWD/BRAKE/REV and RUN/JOG controls, NEMA 4X black enclosure
OMDC-125DV200EW	ON/OFF control, NEMA 4X white enclosure
OMDC-125DV200EW-29	ON/OFF and FWD/BRAKE/REV controls, NEMA 4X white enclosure
OMDC-125DV200EW-29-4	ON/OFF, FWD/BRAKE/REV and RUN/JOG controls, NEMA 4X white enclosure