



## Standard Specifications

- Service Factor: 1.0
- Duty: Continuous
- Speed regulation:
  - 1.0% with arm. volt. feedback
  - 0.1% with tach. feedback
- Speed range:
  - 50:1 with 100% torque
  - 60:1 usable range
- Overload capacity: 150% for 1 min.
- Field supply rating:
  - 1 Amp DC
  - 50/100 VDC (115 VAC)
  - 100/200 VDC (230 VAC)
- Tachometer feedback range: 7 to 50 VDC/1000 RPM
- Non-isolated reference input for DC3R-12D-00-010-AN:  $\pm 0-10$  VDC

## Standard Adjustments

- Speed reference potentiometer: 10 kOhm, 2 Watts
- Separate potentiometers for:
  - Minimum speed: 0 to 35%
  - Maximum speed: 0 to 100%
  - Forward torque:  $\leq 200\%$
  - Reverse torque:  $\leq 200\%$
  - Forward accel: 0.5 to 6 sec.
  - Reverse accel: 0.5 to 6 sec.
  - IR compensation: 0 to 15%
  - Deadband compensation adj.
  - Tachometer feedback adj.

DC3R-12D-00-010-AI adds isolated analog reference inputs:

- $\pm 25$  &  $\pm 250$  VDC
- 1 - 5, 4 - 20 & 10 - 50 mA

Instruction Manual: DC3R: D2-3453

## Standard Features

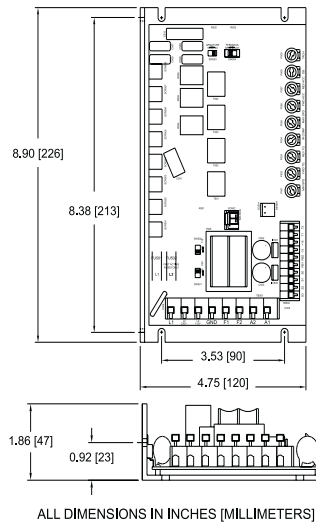
- On-board AC input line fusing (L1 & L2)
- Cage-clamp terminal blocks
- Loose potentiometer kit
- Inhibit circuit kit

## Selection Table

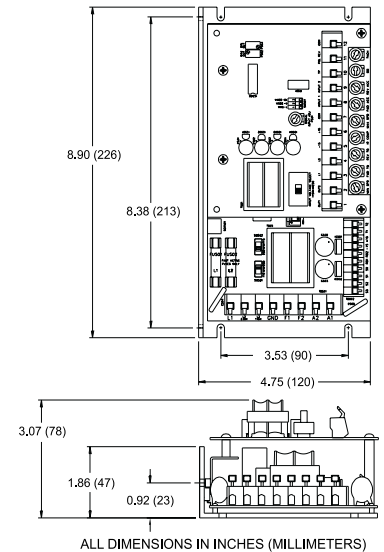
Model No.	Input Voltage	HP	Armature Amps Cont.	Armature Voltage	Enclosure Type
DC3R-12D-00-010-AN	115 VAC, 1-Phase	1/4 to 1/2	7.0	0 to 90 VDC	Plate
		1/2 to 1.0 ***	10.0 ***		
	230 VAC, 1-Phase	1/2 to 1.0	7.0	0 to 180 VDC	Plate
		1.0 to 2.0 ***	10.0 ***		
DC3R-12D-00-010-AI	115 VAC, 1-Phase	1/4 to 1/2	7.0	0 to 90 VDC	Plate
		1/2 to 1.0 ***	10.0 ***		
	230 VAC, 1-Phase	1/2 to 1.0	7.0	0 to 180 VDC	Plate
		1.0 to 2.0 ***	10.0 ***		

\*\*\* Denotes capacity with Heatsink option installed. Use Heatsink model DC3R-HS-00.

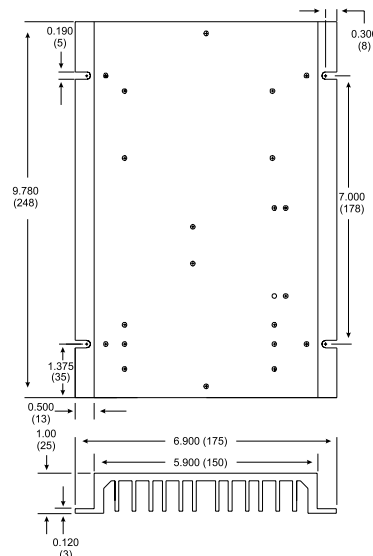
## Dimensions: DC3R-12D-00-010-AN



## DC3R-12D-00-010-AI



## Dimensions: DC3R-HS-00 Heatsink





## Standard Specifications

- Service factor: 1.0
- Duty: Continuous
- Speed regulation:
  - 1.0% with arm. volt. feedback
  - 0.1% with tach. feedback
- Speed range:
  - 50:1 with 100% torque
  - 60:1 usable range
- Overload capacity: 150% for 1 min.
- Field supply rating:
  - 1 Amp DC
  - 50/100 VDC (115 VAC)
  - 100/200 VDC (230 VAC)
- Tachometer feedback range: 7 to 50 VDC/1000 RPM
- Non-isolated reference input:  $\pm 0-10$  VDC

## Standard Adjustments

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- Separate potentiometers for:
  - Minimum speed: 0 to 35%
  - Maximum speed: 0 to 100%
  - Forward torque:  $\leq 200\%$
  - Reverse torque:  $\leq 200\%$
  - Forward accel: 0.5 to 6 sec.
  - Reverse accel: 0.5 to 6 sec.
  - IR compensation: 0 to 15%
  - Deadband compensation adj.
  - Tachometer feedback adj.

Instruction Manual: D2-3453

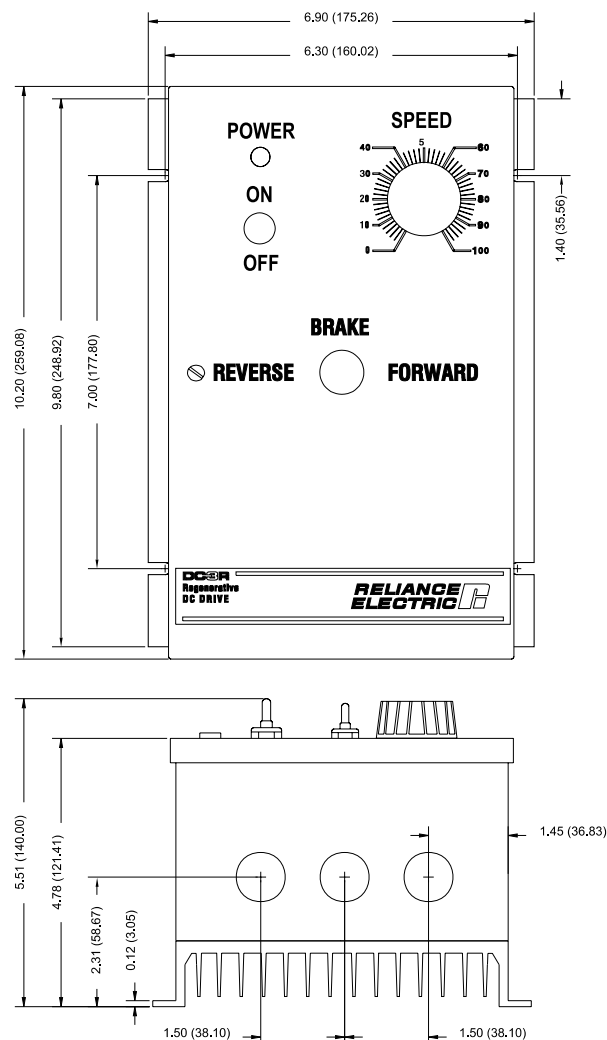
## Standard Features

- On-board fusing: AC line input (L1 & L2)
- Cage-clamp terminal blocks
- Operator speed potentiometer
- ON/OFF toggle switch
- Power ON indicator light
- Grounding screws

## Selection Table

Model No.	Input Voltage	HP	Armature Amps Cont.	Armature Voltage	Enclosure Type
DC3R-12D-4X-010-AN	115 VAC, 1-Phase	1/4 to 1.0	10.0	0 to 90 VDC	NEMA 4X/12
	230 VAC, 1-Phase	1/2 to 2.0	10.0	0 to 180 VDC	NEMA 4X/12

## Dimensions: DC3R-12D-4X-010-AN





## Standard Specifications

- Service factor: 1.0
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  - Maximum speed: 0 to 100%
  - Forward torque:  $\leq 200\%$
  - Reverse torque:  $\leq 200\%$
  - Forward accel: 0.5 to 15 sec.
  - Reverse accel: 0.5 to 15 sec.
  - IR compensation: 0 to 15%
  - Deadband compensation adj.
  - Tachometer feedback adj.
  - Cycle dwell time: 0.1 to 1 sec. (adjusts in 0.1 sec. increments)

Instruction Manual: D2-3455

## Standard Features

- Dual operator speed potentiometers with independent forward & reverse setpoints
- ON/BRAKE/OFF toggle switch
- Jog, forward, stop, reverse operator membrane keys
- Jog, forward, stop, reverse indicator lights
- 4 modes of limit switch selection for cyclic reversing & adjustable dwell time
- On-board fusing: AC line input (L1 & L2)
- Cage-clamp terminal blocks
- Grounding screws

## Selection Table

Model No.	Input Voltage	HP	Armature Amps Cont.	Armature Voltage	Enclosure Type
DC3R-12D-4X-010-DN	115 VAC, 1-Phase	1/4 to 1.0	10.0	0 to 90 VDC	NEMA 4X/12
	230 VAC, 1-Phase	1/2 to 2.0	10.0	0 to 180 VDC	NEMA 4X/12

## Dimensions: DC3R-12D-4X-010-DN

