

1/20 to 2 Hp SCR DC NEMA 1

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SCR DRIVES

FEATURES & BENEFITS

- **NEMA 1 enclosure:** Protects against accidental contact and falling objects.
- **Speed range and regulation:** 1% regulation over 60:1 speed range. 3% for models MM21151C & MM21251C.
- **User adjustable calibration pots:** IR compensation, min speed, max speed, current limit, acceleration & deceleration.
- **Non regen reversing:** Forward/reverse switch on cover of models MM21251C & MM23201C.
- **Diagnostic:** LED for Power On light on front of enclosure.
- **Stopping modes:** MM21251C and MM23201C have run/brake switch on front of enclosure.
- **Screw terminals:** Quick and easy wire terminations.

MM20000 Series Specifications

Models	Input Voltage (VAC)	Output Voltage (VDC)	Max. Output Current (ADC)	Form Factor	Hp Rating	Reversing & Braking	Field Supply
MM21151C†	115	0 - 130	2.7	1.10	1/20 - 1/4 @ 130 VDC	No	50/100 (1 Amp)
MM21251C†	115	0 - 130	2.7	1.10	1/20 - 1/4 @ 130 VDC	Yes	50/100 (1 Amp)
MM23101C*	115/230	0-90 or 0-180	10.0*	1.37	1/8 - 1 @ 90 VDC or 1/4 - 2 @ 180 VDC	No	50/100/200 (1 Amp)
MM23201C*	115/230	0-90 or 0-180	10.0*	1.37	1/8 - 1 @ 90 VDC or 1/4 - 2 @ 180 VDC	Yes	50/100/200 (1 Amp)

† A filtered drive yields higher output voltage and lower form factor.
*Needs heatsink model number 223 - 0174 above 5 amps. Drives operate from 50 - 60 Hz.

MM20000 Series



MM23201

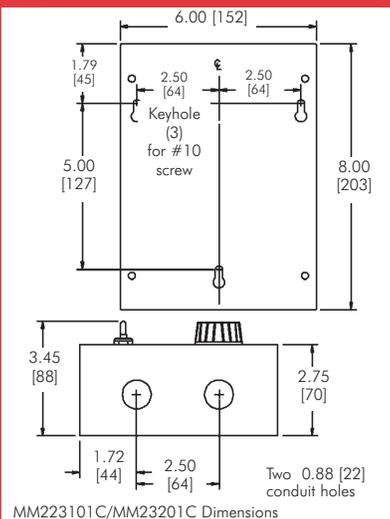
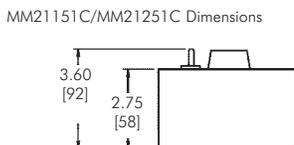
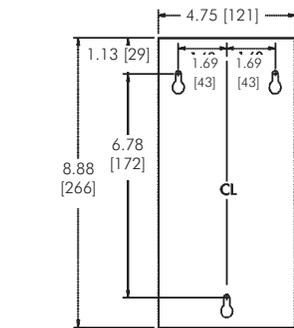
Typical Applications

- Conveyors
- Packaging Equipment
- Printers
- Specialty Machinery
- Food Processing
- Pumps.

Minarik's MM20000 Series of drives housed within an aluminum NEMA 1 enclosure guarantee protection from hands, falling dirt, or any other unwanted external solid objects that present a hazard. Additionally, the MM21251C and MM23201C have non-regenerative reversing and dynamic braking capability accessible through switches on the front of the enclosure. Users make all wire terminations at the screw terminal strip inside the enclosure, and operate the drive through the pre-mounted speed potentiometer, power switch, and brake or reversing switch when applicable.

MM20000 Dimensions

All dimensions in inches [millimeters]



For matching DC motors, see pages 37 to 43.

We offer four different MM drives that fit in NEMA 1 enclosures. Each drive is dependable and adept at controlling DC SCR brush-type motors in variable-speed applications from 1/20 to 2 Hp. Using full-wave rectification of the AC line input, these SCR drives provide a 60:1 speed range. The MM21151C and MM21251C are filtered drives that output 0-130 VDC to the motor with a 1.10 form factor. We offer single and dual voltage drives which operate from 115 VAC or 115/230 VAC, to run 90, 130 or 180 VDC motors.