## General
- **Family:** MD808
- **Brand:** Superior Electric
- **Regions Available:** North America, Asia
- **Type:** High performance, compact, low cost microstepping drive for two phase step motors
- **Description:** The Superior Electric MD808 series high performance microstepping drives provide an affordable solution for a wide variety of OEM single and multi-axis applications. This series offers step and direction inputs and up to 20,000 micro-steps per revolution for smooth, low-speed operation. These drives operate from a single 20 to 80 VDC power source and provide switch selectable output current from 3 to 8 amps.
- **Number of Drive Axes:** 1
- **Operating Modes:** Step and Direction
- **Interfaces:** Dip Switches
- **Commissioning Software:** Yes
- **Other Features:** Smoothing Software (frequency filter)
- **Agency Ratings:** CE, cUR, UR

## Compatible Stepper Motors
- **Suggested Pacific Scientific and Superior Electric Motors:** M, KML
- **Compatible NEMA motor sizes:** 23, 34
- **Motor Inductance Range mH:** 0.9 to 31

## Electrical
- **Power supply included:** No
- **Input DC voltage range VDC:** 20 to 80
- **Minimum Output DC Current A, peak:** 3.0
- **Maximum Output DC Current A, peak:** 8.0
- **Idle Current Reduction:** 50%
- **Input Resolution Range pulses/rev:** 200 to 20,000 (optional 25,600)

## Digital I/O
- **Optical Isolation:** yes
- **Dedicated Inputs:** Pulse, Dir, AWO, RDCE
- **User-Defined Inputs:** 0
- **User-Defined Outputs:** 0

## Environmental
- **Operating Ambient Temperature °C:** 0 to 50
- **Storage Temperature °C:** -40 to 75
- **Maximum Relative Humidity % non condensing:** 95
- **Altitude Above Sea Level km (ft):** 2.0 (6562)

## Thermal Characteristics