

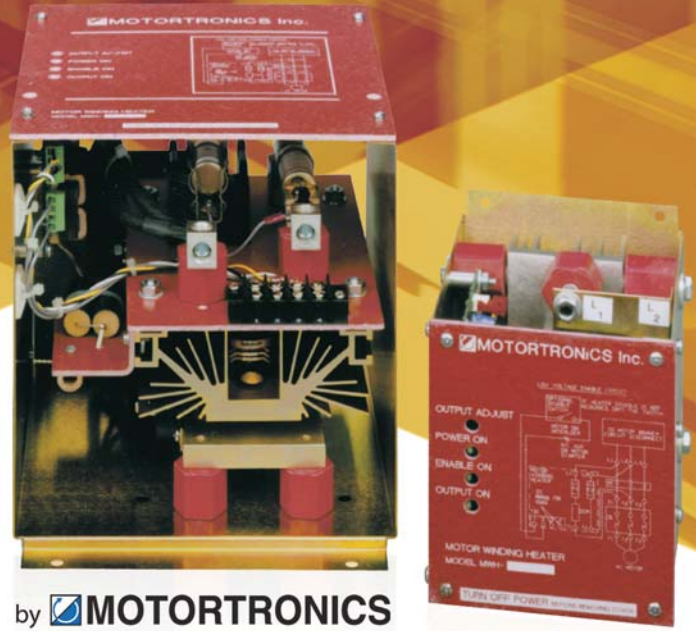
# MWH Series

## Motor Winding Heater Controls

Ratings from 3 - 900 HP



The *MWH Series*  
keeps motors warm &  
moisture-free  
during extended  
shut down periods.



by  **MOTORTRONICS**

### *Protect Your Motors*

Even the best motor winding insulation materials become water permeable with repeated exposure to temperature extremes and moisture. If the ambient temperature is below the “dew point” when a motor is turned off, condensation will form inside the motor as it cools down. When the motor is re-energized, the moisture heats up and permeates the windings, eventually shorting and damaging the motor. Airborne corrosive elements like salt and chemicals can also combine with condensation and erode the rotor and bearings, leading to premature motor failure.

The *MWH Series* provides a cost effective solution to these problems by preventing condensation build-up in motors. By applying a low level current to the motor windings during extended shut down periods, the *MWH Series* keeps AC motors warm and moisture-free.

- Use On Any AC Motor
- Simple to Wire/Easy Retrofit
- Cost-Effective Alternative to Strip Heaters
- Protects Motors from Problems Due to Condensation Build-up
- Reliable, Maintenance-Free Operation

### *Fully Automatic Operation*

Designed for fully automatic operation, the *MWH Series* turns on when the motor starter has turned off. A built-in one minute timer ensures that the motor magnetic field has collapsed before it injects DC power into the windings. When the motor is restarted, the *MWH Series* instantly turns off. No operator interface is required... the *MWH Series* is in control.

### *Built-in Overload Sensing*

The *MWH Series* had an optional shutdown input that can be connected to the N.O. auxiliary contact on the motor starter’s thermal overload relay. This will disable the motor winding heater control, preventing any additional heating in the motor and allowing for a faster motor cool down period. The *MWH Series* then goes back on-line after the overload relay is reset.

### *Ideal Alternative to Strip Heaters*

Eliminate the cost and hassle of installing strip heaters into your motors. Simply wire up the *MWH Series* to generate heat throughout the motor stator windings. The heat is dissipated evenly without the “hot spots” caused by strip heaters. Conduction of heat to the rotor, bearings and shaft is also more effective which means maximized protection for the whole motor.

# Simple Connections

## Easy to Install

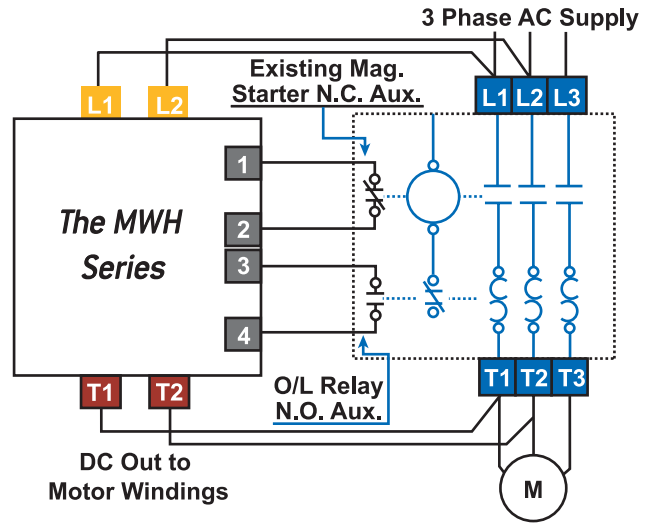
Whether retrofitting an existing starter or installing a new one, the **MWH Series** is easy to apply. Just wire it in parallel to the magnetic starter's line and load connection, connect the necessary auxiliary contacts and installation is complete.

## Simple Adjustment

Output voltage is factory set to maintain a +5° to 10°C differential above ambient temperature. This adjustment can be used to trim the control as required for each application.

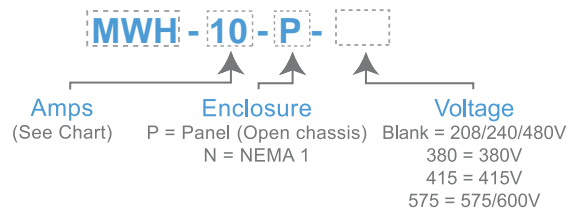
## Self Protected

In addition to built-in fuse protection, the **MWH Series** features an RC snubber circuit across the SCR which protects it from any rapid rate of change in the system voltage. A metal oxide varistor (MOV) protects the unit against voltage spikes for reliable, maintenance-free operation.



# How to Order

Standard units are dual voltage rated for 240V / 480V operation and can be used for 208V applications. To order 380V, 415V or 575V units, add voltage designation to the end of the part number (example: MWH-10-P-575).



Model Number	Max Amp Rating	Motor Horsepower/Voltage				Dimensions					
		208V	240V	480V	575V	Panel Mount			NEMA 1		
						H	W	D	H	W	D
MWH - 10	10	3 - 40	5 - 50	10 - 100	15 - 125	6.2	4.5	6	1.1	7	7
MWH - 25	25	50 - 100	60 - 125	125 - 250	150 - 300	8	6	6	1.1	7	7
MWH - 50	50	125 - 200	150 - 250	300 - 500	350 - 600	10	8	7.9	1.5	10	8
MWH - 80	80	250 - 300	300 - 400	600 - 800	700 - 900	10	8	9.3	20	10	10

Dimensions shown are in inches and are for reference only. Contact factory for exact dimensions.



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