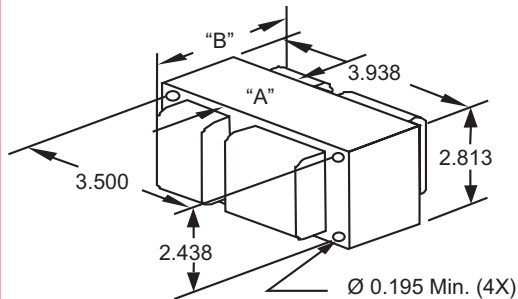
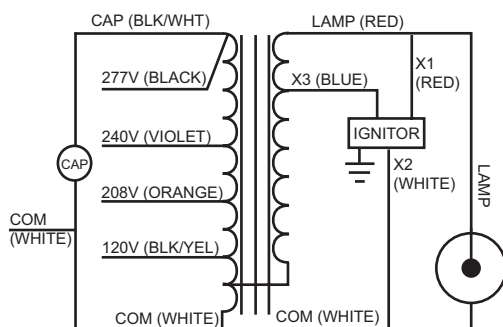


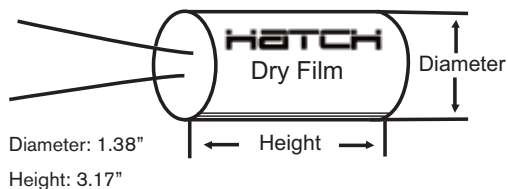
## PHYSICAL DIMENSIONS



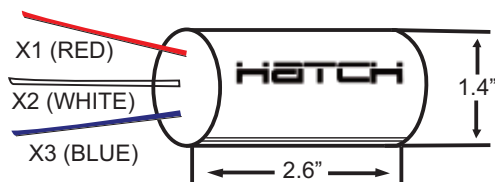
## WIRING DIAGRAM



## CAPACITOR



## IGNITOR



Pulse Height (kV): 3.0 ~ 4.0

Pulse Width ( $\geq \mu$ s): 1.3 @ 2.7kV


**2 YEAR WARRANTY FROM  
DATE OF MANUFACTURE**

## MAGNETIC HID BALLAST

|                     |                           |                     |        |
|---------------------|---------------------------|---------------------|--------|
| <b>Ballast Type</b> | Magnetic Pulse Start      | <b>Circuit Type</b> | HX-HPF |
| <b>Lamp</b>         | 70W Metal Halide M98/M143 | <b>Frequency</b>    | 60Hz   |

## ELECTRICAL SPECIFICATIONS

| Input Voltage (V)             |                        | Quad Tap      |     |     |     |
|-------------------------------|------------------------|---------------|-----|-----|-----|
|                               |                        | 120           | 208 | 240 | 277 |
| Line Current (A)              | Operating              | 0.8           | 0.5 | 0.4 | 0.3 |
|                               | Open Circuit           | 1.6           | 0.9 | 0.8 | 0.7 |
|                               | Starting               | 0.7           | 0.4 | 0.4 | 0.3 |
| Recommended Fuse              |                        | 6             | 3   | 3   | 2   |
| Input Voltage At Lamp Dropout |                        | 80            | 130 | 150 | 175 |
| UL Class H 180°C Temp. Code   |                        | A             | A   | A   | A   |
| UL Class N 200°C Temp. Code   |                        | A             | A   | A   | A   |
| Nom. Open Circuit Voltage     |                        | 252           |     |     |     |
| Input Power (W)               |                        | 85            |     |     |     |
| Power Factor ( $\geq$ %)      |                        | 90            |     |     |     |
| Regulation ( $\pm$ %)         | Line Volts             | 5             |     |     |     |
|                               | Lamp Watts             | 10            |     |     |     |
| Min. Starting Temp            |                        | -20°F / -30°C |     |     |     |
| Ballast Dimensions (inches)   | A                      | 1.46          |     |     |     |
|                               | B                      | 2.9           |     |     |     |
| Ballast Net Weight (lbs)      |                        | 4.5           |     |     |     |
| Lead Length (inches)          |                        | 12            |     |     |     |
| Capacitor                     | Capacitance ( $\mu$ F) | 8             |     |     |     |
|                               | Min VAC Rating (V)     | 280           |     |     |     |
| Requires Ignitor Model        |                        | GMHR1         |     |     |     |
| Coil Material (Pri./ Sec.)    |                        | Cu / Al       |     |     |     |

## 60 HZ. TEST PROCEDURES

|                           |           |      |     |     |     |     |
|---------------------------|-----------|------|-----|-----|-----|-----|
| Short Circuit Current (A) | Secondary | Min  | 0.9 |     |     |     |
|                           |           | Max  | 1.5 |     |     |     |
|                           | Input     | Min  | 0.4 | 0.3 | 0.2 | 0.2 |
|                           |           | Max  | 1.3 | 0.9 | 0.7 | 0.7 |
| Open Circuit Voltage (V)  | Min       | 235  |     |     |     |     |
|                           | Max       | 280  |     |     |     |     |
| High Potential Test (V)   | 1 Minute  | 1600 |     |     |     |     |
|                           | 1 Second  | 1900 |     |     |     |     |

## REFERENCE LAMP DATA

|                      | Test Range | ANSI Standard |
|----------------------|------------|---------------|
| Starting Current (A) |            | 0.9 ~ 1.5     |
| CCF                  | 1.5        | $\leq 1.8$    |
| OCV (V)              | 235 ~ 280  |               |
| Off Time (Sec.)      |            |               |
| Peak Current (A)     |            |               |
| Overshoot (V)        |            |               |
| VSS (V)              |            |               |

## OPTIONAL FEATURES

(ADD SUFFIX FOR OPTIONS)

|     |                                                                                         |
|-----|-----------------------------------------------------------------------------------------|
| -WB | With welded bracket                                                                     |
| -I  | With ignitor                                                                            |
| -DC | With dry film capacitor                                                                 |
| -OC | With oil filled capacitor                                                               |
| -K  | With distributor replacement kit (includes bracket, capacitor and ignitor as necessary) |