250W  M138 / M153  
Pulse Start Metal Halide  
V90D8412  
60 Hz  CWA  C&C

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**Input Volts**  
120  208  240  277

<table>
<thead>
<tr>
<th>Line Current (Amps)</th>
<th>120</th>
<th>208</th>
<th>240</th>
<th>277</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>2.40</td>
<td>1.40</td>
<td>1.20</td>
<td>1.05</td>
</tr>
<tr>
<td>Open Circuit</td>
<td>1.80</td>
<td>1.10</td>
<td>0.90</td>
<td>0.80</td>
</tr>
<tr>
<td>Starting</td>
<td>1.75</td>
<td>1.00</td>
<td>0.90</td>
<td>0.75</td>
</tr>
</tbody>
</table>

**Recommended Fuse (Amps)**  
7  4  4  3

**Regulation**  
Line Volts  ±10%  ±10%  ±10%  ±10%
Lamp Watts  ±9%  ±9%  ±9%  ±9%

**Temperature Ratings**  
- Insulation Class (H): 180  180  180  180
- Coil Temperature Code: A  A  A  A
- Benchtop Coil Rise: 50.6  49.2  48.4  49.9

**Power Factor (%)**  
HPF: 90  90  90  90

**Input Watts**  
278 W  278 W  278 W  278 W

**Efficiency**  
90.0%  90.0%  90.0%  90.0%

**NOM. Open Circuit Voltage**  
275  275  275  275

**Input Voltage At Lamp Dropout**  
65  110  125  145

**Min Ambient Starting Temp**  
-20°F/-30°C  -20°F/-30°C  -20°F/-30°C  -20°F/-30°C

**60 HZ TEST PROCEDURES**  
- High Potential Test (Volts)
  - 1 Minute: 1,600 V  1,600 V  1,600 V  1,600 V
  - 1 Second: 1,900 V  1,900 V  1,900 V  1,900 V
- Open Circuit Voltage Test (V)
  - 245 - 300  245 - 300  245 - 300  245 - 300
- Short Circuit Current Test (A)
  - Min: 2.30  2.30  2.30  2.30
  - Max: 2.80  2.80  2.80  2.80
  - Min: 1.35  0.75  0.65  0.55
  - Max: 2.00  1.15  1.00  0.90

**CORE and COIL Specifications**  
- Dimension (A): 2.00 in  2.00 in  2.00 in  2.00 in
- Dimension (B): 4.05 in  4.05 in  4.05 in  4.05 in
- Weight: 12.5 lb/s  12.5 lb/s  12.5 lb/s  12.5 lb/s
- Lead Lengths: 12"  12"  12"  12"

**Capacitor Requirement**  
- Microfarads: 16.0 uf  16.0 uf  16.0 uf  16.0 uf
- Volts (Min): 370 V  370 V  370 V  370 V

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**Ordering Information**  
Add Suffix for options
C - With Oil-Filled Capacitor  
CB - With Oil-Filled Capacitor and Welded Bracket  
B - With Welded Bracket, no Capacitor  
K - Prewired, with Dry Capacitor and Bracket Kit  
D - With Dry Capacitor  
DB - With Dry Capacitor and Welded Bracket

* -40°F/-40°C Min Ambient Starting Temp with Venture Lamp

Data is based upon tests performed by Venture Lighting in a controlled environment and is representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.

RoHS

Complies with the Energy Independence and Security Act of 2007 and California Title 20 Appliance Efficiency Regulations

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**Ballast Specification**

Ballast: M138 / M153  
Pulse Start Metal Halide  
V90D8412  
60 Hz  CWA  C&C

**Capacitor:** 16.0 uf  16.0 uf  16.0 uf  16.0 uf
**Ignitor:** BVS-041

**Microfards:** 16.0 uf  16.0 uf  Case Temp (Max): 105 °C
**Volts (Max):** 370 V  400 V  BTL Distance (Max): 2 ft
**Case Temp (Max):** 100 °C  100 °C
**Height (Max):** 3.28 in  3.74 in
**Dia (Max):** 1.97 in  1.80 in
**Oval Width (Max):** 2.97 in

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