INSTALLATION

WIRING INSTALLATION

Three wires (one is ground) are recommended. To connect the wires loosen screw and pull connector assembly away from coil. Use a small screwdriver and carefully pry the inside connector from housing using the visible slot at the corner of the connector. Screw your conduit or cable fitting into the housing. Pass the wires through your fitting and the housing and then connect them to the terminals on the connector. One terminal is marked with the ground symbol (—) and the other two are hot leads. Coil is not polarity sensitive. Reassemble, paying attention to the desired orientation of the conduit connection. Tighten the conduit fitting to secure the conduit. Make sure the two gaskets are properly seated before tightening the connector assembly to the coil. Do not overtighten. For three-phase power systems the terminals can be connected to any two of the three phases. All local wiring codes should be followed when wiring the coil. DC coil is 17 watts cold, 11 watts hot; AC coil has 17 watts inrush, 11 watts holding.

IMPORTANT MOUNTING INFORMATION

Solenoid valves with 11 watt molded coils will operate in any position, however, it is recommended that they be mounted in an up-right position for maximum cycle life, and never with the coil below the valve body.

OPERATION

PLAST-O-MATIC molded solenoid coils are rated for continuous duty up to 104°F (40°C) ambient. Above this temperature they are rated intermittent duty requiring a cool down period before re-energizing. A general rule-of-thumb for ambient temperatures between 104°F (40°C) and 122°F (50°C) is to allow an equal amount of cool-down time as compared to energized time with a maximum time of 1/2 hour. At higher temperatures more cool-down time is needed. Coils can be operated up to 10% below their listed nominal voltages, however, the inlet pressure rating of the valve will be about 30% lower. Also, coils exposed to voltages in excess of their rated nominal voltage will operate hotter than intended which could lead to coil and valve failure. Consult factory for specific information.
TYPE W11 AC MOLDED SOLENOID COIL & ENCLOSURE INFORMATION
17 WATT INRUSH / 11 WATT HOLDING

![DIAGRAM OF W11 SOLENOID COIL AND ENCLOSURE]

**STYLE**
W11
17 WATT
CLASS “F”
COILS
Continuous Duty

- CORROSION RESISTANT
- CONTINUOUS DUTY
- SAFE OPERATING TEMP.
- NEMA 4 WATER AND DUST TIGHT ENCLOSURE
- MOISTURE PROOF
- FUNGUS PROOF

**CURRENT CONSUMPTION**
The current may be determined from the watts rating in the above table. To determine the current, divide the voltage into the watts rating.

\[
\text{Current (Amps)} = \frac{\text{VA}}{\text{Voltage}}
\]

**INSTALLATION CLASS**

<table>
<thead>
<tr>
<th>INSTALLATION CLASS</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>COIL SURFACE TEMPERATURE</td>
<td>185°F 85°C</td>
</tr>
<tr>
<td>MAX. ALLOWABLE AMBIENT TEMP. *</td>
<td>104°F 40°C</td>
</tr>
<tr>
<td>VA = 24 HOLDING VA = 66 INRUSH</td>
<td></td>
</tr>
</tbody>
</table>

* With power on continuously

**PARTS LIST**
- CAP NUT
- COIL O-RING
- HOUSING (STANDARD CONNECTION 1/2” NPT)
- SCREW
- GASKET

**TYPE W11 AC MOLDED SOLENOID COIL**

17 WATT INRUSH / 11 WATT HOLDING

**ENCLOSURE INFORMATION**

- VA = 24 HOLDING
- VA = 66 INRUSH

**SCREW GASKET**

**CONNECTOR ASSEMBLY**

**CORE TUBE**

**HOUSING**

**GASKET**

**COIL**