DFV Series Flasher

... Solid state analog flasher circuitry
... DPDT (2 form C) isolated 10 ampere relay contacts
... Variable flash rate: standard flash rate range 10-120 F.P.M.
... Single knob adjustment on top of unit
... 12V to 120V input voltage available - both AC & DC models
... UL File #E96739 (M)
... CSA File #LR62586

Timing Mode:
On/off adjustable recycling flasher. The flash rate is adjustable from 10 to 120 flashes per minute (FPM). Custom rates are available within ranges between minimum of 1 FPM & maximum of 240 FPM. Duty cycle is 50%. Flash rate is adjustable by means of a knob potentiometer on top of the unit.

Timing diagram:

Contact Information:
Arrangement: 2 form C (DPDT) - Diagram C
Contact Material: Silver - Cadmium Oxide
Rating (Resistive):
10A @ 240V AC Resistive
15A @ 30V DC Resistive
15A @ 120V AC Resistive
1/3 HP @ 120V AC
1/2 HP @ 250V AC
Expected Life @ 25°C :
10 Million operations, Mechanical
100,000 operations minimum at rated loads

Environmental Information:
Temperature Range:
Storage: -60°C to +105°C (-76°F to +221°F)
Operating: -45°C to +70°C (-49°F to +158°F)

**Mechanical Information:**
Termination: 8 pin Octal Style Plug or 11 pin spade terminals (Diagram C & D).
Enclosure: White plastic case with a dial scale for knob adjustment, reference only.
LDFV version has a black case.
Weight: 4 oz (114g) approx.

**Outline Dimensions:**

![Diagram A](image1)

![Diagram B](image2)

**Timing Specifications:**
Flash Rate - Adjustable: Standard - 10 to 120 flashes per minute (FPM). Custom rates are available within ranges between minimum of 1 FPM and a maximum of 240 FPM.
Timing Adjustment: Knob adjustable potentiometer.

**Initial Dielectric Strength:**
Between open contacts: 1000V RMS,
Between adjacent contacts: 1500V RMS,
Between contacts & coil: 1500V RMS

**Input Information:**
Voltage: AC units- 12V, 24V, and 120V; DC units- 12V, 24V, 48V and 110V. Other voltages are available.
Power Requirement: AC units: 3 VA or less; DC units: 3 Watts or less
Transient Protection: 1 JOULE MOV
Polarity Protection: On DC units - Yes
### Input Voltages & Limits:

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V AC</td>
<td>10V</td>
<td>14V</td>
</tr>
<tr>
<td>24V AC</td>
<td>20V</td>
<td>28V</td>
</tr>
<tr>
<td>120V AC</td>
<td>105V</td>
<td>130V</td>
</tr>
<tr>
<td>12V DC</td>
<td>11V</td>
<td>14V</td>
</tr>
<tr>
<td>24V DC</td>
<td>20V</td>
<td>32V</td>
</tr>
<tr>
<td>48V DC</td>
<td>41V</td>
<td>55V</td>
</tr>
<tr>
<td>110V DC</td>
<td>95V</td>
<td>125V</td>
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</tbody>
</table>

### Wiring Diagrams:

Diagram C

Diagram D

### Ordering Information:

Definition of a part number for the Amperite DFV Series Adjustable Flasher.

Example:

```
120 A F 10 -120 L DFV
A B C D E F G
```

**A:** Denotes nominal input voltage. Voltages Available: 12, 24 & 120V AC; 12, 24, 48 &
110V DC. **Custom Voltages are available.**

**B:** Denotes type of input current required for operation:
A = AC - Alternating Current,
D = DC - Direct Current

**C:** Denotes flasher configuration.

**D & E:** Denotes range of knob adjustability for flash rate where:
D = Minimum number of flashes per minute (FPM).
E = Maximum number of flashes per minute (FPM).
Note: Standard rate is from 10 to 120 FPM. Custom rates are available within ranges between minimum of 1 FPM and a maximum of 240 FPM.

**F:** Enter "L" if optional 11-pin spade terminals are required (Diagrams B & D).

**G:** Denotes 10A DPDT (2 form C) adjustable flasher - DFV Series.