**Thermal Time Delay Relays Sequencers**

These time delay relays are used for a variety of applications in heating and air conditioning. They operate by means of a solid state PTC (positive temperature coefficient) device which heats up as current passes through it from the control circuit. This heat causes a positive, snap-acting disc to make or break the necessary contacts.

**Features:**
- Shock & vibration resistant internal snap action automatic reset switch mechanism assures positive make/break action
- Non-positional
- Wide selection for any application
- Voltage and ambient compensated
- UL and CSA listed
- Used for electric heat, air conditioning, heat pumps, gas & oil furnaces, unit heaters and commercial refrigeration

**Diagrams:**
- Single Pole Single Throw
- Single Pole Double Throw (Contacts 1 and 3 are normally open)
- Double Pole Single Throw

**MARS NO.** | REPLACES KLIKON NO. | SWITCH TYPE | CONTROL VOLTAGE | DELAY (SEC.) | LIFE
---|---|---|---|---|---
33215 | G0-18 | 24 | 1-60 | 1-45 |
33217 | G4-9 | 240 | 20-70 | 20-80 |
33241 | AOM | 24 | 1-24 | 45-75 |
33242 | AOM | 24 | 30-75 | 1-40 |
33243 | AOM | 24 | 1-60 | 1-45 |
33244 | EOM | 24 | 1-24 | 45-75 |
33245 | EOM | 24 | 30-75 | 1-40 |
33246 | EOM | 24 | 1-60 | 1-45 |
33247 | COM-21 | 24 | 1-24 | 15-75 |
33255 | E4 | 120 | 30-110 | 15-65 |
33256 | E4 | 120 | 20-70 | 20-80 |
33265 | E4 | 240 | 30-110 | 15-65 |
33266 | E4 | 240 | 20-70 | 20-80 |
33267 | C4M-13 | 240 | 20-70 | 20-80 |

**Electric Heat Sequencers**

The MARS heat sequencers are used in a variety of applications, including electric furnaces, baseboard heaters, heat pump blower control and heating element control. The sequencers stage electric heat to prevent circuit overload. These units operate by means of a PTC (positive temperature coefficient). The PTC is self current limiting, ensuring stable switching action over a wide range of voltages.

**Features:**
- Solid state dependability
- Replaces Honeywell, White Rodgers, and Klixon
- 12.5A to 25A contact ratings
- Quick connect terminals
- Various mounting positions
- Shock & vibration resistant
- Ambient rated from -50ºF to 165ºF
- Full-load rated auxiliary contacts

**Single Load Contact Ratings**

<table>
<thead>
<tr>
<th>VAC</th>
<th>WATTS</th>
<th>AMPS</th>
<th>FULL LOAD</th>
<th>LOCKED ROTOR</th>
<th>PILOT DUTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>3000</td>
<td>25</td>
<td>10A</td>
<td>60A</td>
<td>125VA</td>
</tr>
<tr>
<td>240</td>
<td>6000</td>
<td>25</td>
<td>5A</td>
<td>30A</td>
<td>125VA</td>
</tr>
<tr>
<td>480</td>
<td>6000</td>
<td>12.5</td>
<td>3A</td>
<td>18A</td>
<td>480VA</td>
</tr>
</tbody>
</table>

Combined Load Ratings: 30A @ 240VAC - Total: 23A non-inductive + 7FLA / 42LRA inductive Life at rated current: 10,000 cycles

(1) M1-M2 and M3-M4 are always first switches to turn ON and to turn OFF. All other switches are random ON and random OFF
(2) #33846 - switch contacts designated F1-F2 instead of M1-M2

These contacts switch simultaneously ON TIME – Elapsed time to make contacts after heater is energized (Min. to Max.)
OFF TIME – Elapsed time to make contacts after heater is de-energized (Min. to Max.)
OFF Timings determined after PTC heater has been electrified for a total of 5 minutes.