



Appliance Controls

2000/3000 Series Repeat Cycle Defrost Timer



The 2000/3000 Series Defrost Timer is a single cam control which activates a SPDT switch. Its operating cycle consists of transferring the switch for a pre-set duration once every 4, 5, 6, 8, 10, 12, 16, or 24 hours. Both the operating cycle and switch transfer duration are pre-set at the factory and are not adjustable.

The cycle will repeat as long as the motor is energized. An internal clutch mechanism permits initial adjustment of the cycle starting time. The 2000/3000 Series can be ordered with any switch transfer duration between the limits shown in the two Cycle Selection Charts. A connector is available for production applications.

Features/Benefits

- **Quite** - Synchronous design provides extremely quiet operation.
- **Positioning Freedom** - The timer can be mounted in any place.
- **Completely Enclosed** - The patented snap fit design eliminates external screws or rivets.
- **Light Weight** - The timer weighs less than 0.2 pounds (90 grams).
- **NEMA Terminals** - Four 0.032 by 0.250 (0.8 mm by 6.35 mm) male tabs. A standard connector is available.
- **Interchangeability** - Standard mounting configuration permits use in all applications.
- **Low Power Input** - Requires only 2 watts. Special 1/4 watt model available upon request.
- **Double Insulated** - Requires no earth grounding.

Model Designations

Four model designations are available.

- **Model 2001 Series** - A standard defrost timer operating at an input power of 2 watts.
- **Model 2003 Series** - A short defrost timer operating at an input power of 2 watts.
- **Model 3001 Series** - A standard defrost timer operating at an input power of 1/4 watts.
- **Model 3003 Series** - A short defrost timer operating at an input power of 1/4 watts.

Note: The short defrost timer is used in applications where the defrost timer motor is not running during defrost. The motor is energized after defrost when the defrost terminator opens.

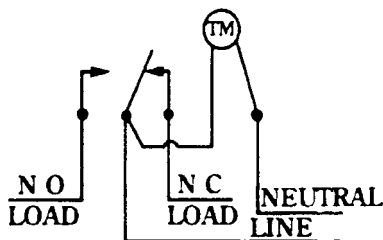
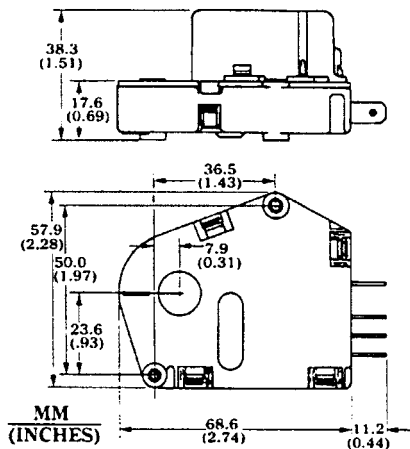
Cycle Selection Charts

(other cycles available)

Standard Duration of Switch Transfer in Minutes			
Cycle	Minimum	Maximum	Tolerance
1 hour	2.0	8.0	±1.0
2 hour	2.0	8.0	±1.0
4 hour	7.0	32.0	±3.0
5 hour	8.0	40.0	±3.0
6 hour	10.0	48.0	±3.0
8 hour	7.0	64.0	±3.0 and ±4.0
10 hour	8.0	80.0	±3.0 and ±5.0
12 hour	10.0	96.0	±3.0 and ±5.0
16 hour	14.0	64.0	±4.0
24 hour	20.0	96.0	±5.0

Short Duration of Switch Transfer in Minutes			
Cycle	Minimum	Maximum	Tolerance
4 hour	1.5	6.0	±1.0
5 hour	1.9	7.5	±1.0
6 hour	2.3	9.0	±1.0
8 hour	1.5	12.0	±1.0 and ±2.0
10 hour	1.9	15.0	±1.0 and ±3.0
12 hour	2.3	18.0	±1.0 and ±3.0
16 hour	3.0	12.0	±2.0
24 hour	4.5	18.0	±3.0

Outside Dimensions



Specifications

- AC Line Voltage (+10%/-15%)
 - 120 volt 50, 60 or 50/60 HZ
 - 208-240 volt 50 or 60 HZ
 - 100-120 volt 50 or 60 HZ
- Power Input
 - 1/4 watts or 2 watts
- Output Rating
 - 1/3 or 1/2 HP @ 120, 208-240V
 - 10 or 15 Amp @ 120V
 - 5 Amp @ 208-240V
 - 125 VA Pilot Duty
 - 16(6) Amp 208-240V
 - 16(8) Amp 208-240V
 - 9(3.6) Amp 208-240V
 - 5(3.6) Amp 208-240V
- Clutch
 - Clockwise integral in timer
- Cam Styles
 - Low one-way screwdriver slot
 - Medium height knurled
 - High height knurled
- Mounting
 - Two 6-20 type 25 screws
 - Two 0.190 (4.8 mm) thru holes
- Ambient Temperatures
 - Operational 0°C to 65°C
 - Transportation -30°C to 70°C
- Protection Against Dirt
 - Normal pollution situation(*)
- Built in Situation
 - An appropriate built in situation of the device has to provide a reinforced insulation (*) at the area of the cam-actuator and also for the terminals.
 - (*) according to EN60730
- Component Recognition
 - UL and CSA
 - EN60730
- Timing Motor Wiring
 - Neutral to line (shown)
 - Neutral to NO load
 - Neutral to NC load
- Wiring Diagram

Information subject to change without notice. 7/99