

24-Hour or 7-Day 120V Electronic Surface/DIN Rail Mount Module, 16A, 20 Setpoint Programs, SPDT

Item FM1D20A-120



PRODUCT DESCRIPTION

The FM1D20 Series Electronic Time Controls are for ventilating, heating, cooling, lighting or other electrical loads in commercial and industrial applications. These one-channel time switches are programmable for 24-hour or 7-day schedules. They are intended for either panel, surface, flush, or DIN rail mounting. Flush and surface/DIN rail (A & E models) are completely enclosed in a plastic housing and include a terminal cover, dust cover and subbase for installation and hard wiring.

FEATURES

- ▶ 24-Hour or 7-day applications.
- ▶ 20 Setpoint programs.
- ▶ Three preset adjustable block programs.
- ▶ Easy-to-follow menu driven programming.
- ▶ Manual override with status indication.
- ▶ Battery backup.
- ▶ Large LCD.
- ▶ Daylight Saving Time adjustment.
- ▶ A & E models come with clear dust cover.

APPLICATIONS

- ▶ Refrigeration Merchandiser
- ▶ Air Movement & Ventilation
- ▶ Aeration
- ▶ Septic Treatment
- ▶ Generator Exercising

TECHNICAL DATA

| General                               |                                                                                                 |
|---------------------------------------|-------------------------------------------------------------------------------------------------|
| Model Number                          | FM1D20A-120                                                                                     |
| Description                           | 24-Hour or 7-Day 120V Electronic Surface/DIN Rail Mount Module, 16A, 20 Setpoint Programs, SPDT |
| UPC Code                              | 078275121607                                                                                    |
| Country of Origin (Intermatic)        | CHINA                                                                                           |
| Warranty Period                       | 1-Year limited                                                                                  |
| IGCC                                  | 5191                                                                                            |
| UNSPSC                                | 39122208                                                                                        |
| Control Specifications                |                                                                                                 |
| Minimum ON/OFF Times                  | 1 min                                                                                           |
| Maximum ON/OFF Times                  | 23 hours, 59 minutes                                                                            |
| Operation Mode                        | 24 hour; 7 day                                                                                  |
| Daylight Savings Adjustment           | Manual                                                                                          |
| Backup Type                           | Battery                                                                                         |
| Backup Protection Time                | 7 Years                                                                                         |
| Battery Service Type                  | Non-Replaceable; Non-Rechargeable                                                               |
| Mechanism Type                        | Digital/Electrical                                                                              |
| Has Manual Override Status Indication | Yes                                                                                             |
| On Events                             | 10                                                                                              |
| Off Events                            | 10                                                                                              |

|              |    |
|--------------|----|
| Total Events | 20 |
|--------------|----|

#### Mechanical Specifications

|                  |                   |
|------------------|-------------------|
| Mounting Options | Surface; DIN Rail |
|------------------|-------------------|

#### Dimensions

|                                   |                    |
|-----------------------------------|--------------------|
| Product Dimensions (H x W x D) mm | 102.5 x 72 x 52 mm |
| Product Dimensions (H x W x D) in | 4 x 2.83 x 2.06 in |
| Cut-Out Width (In)                | 2.625              |
| Cut-Out Width (mm)                | 66                 |
| Cut-Out Height (in)               | 2.625              |
| Cut-Out Height (mm)               | 66                 |
| Wire Size Min                     | #24 AWG            |
| Wire Size Max                     | #10 AWG            |

#### Material Specifications

|                      |     |
|----------------------|-----|
| Has Clear Dust Cover | Yes |
|----------------------|-----|

#### Load Ratings

|                                     |                                  |
|-------------------------------------|----------------------------------|
| Motor Load (NO) Range(s)            | 1/2 HP @ 120 VAC; 1 HP @ 240 VAC |
| Magnetic Ballast (NO) Range(s)      | 8 A, 240 VAC; 12 A, 120 VAC      |
| Resistive (NO) Range(s)             | 16 A, 277 VAC                    |
| Resistive (NC) Range(s)             | 16 A, 277 VAC; 8 A, 24 VDC       |
| Pilot Duty (NO) Range(s)            | 360 VA, 120 VAC; 720 VA, 240 VAC |
| Pilot Duty (NC) Range(s)            | 360 VA, 120 VAC                  |
| Tungsten Incandescent (NO) Range(s) | 600 W, 120 VAC; 1000 W, 240 VAC  |

#### Electrical Specifications

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Maximum Power Consumption (VA) | 4                                       |
| Voltage Selection Type         | Voltage Specific                        |
| Wiring Option                  | Screw terminals for #24 to #10 AWG wire |
| Input Voltage Range(s)         | 120 VAC, 50/60 Hz                       |
| Number of Circuits             | 1                                       |
| Switch Type                    | SPDT                                    |
| Maximum Power Consumption (W)  | 1.4 W                                   |

#### Packaging

|                                       |                       |
|---------------------------------------|-----------------------|
| Shipping Weight (kg)                  | 0.24                  |
| Shipping Weight (lbs)                 | 0.529                 |
| Unit Carton Dimensions (H x W x D) in | 3.25 x 3.25 x 4.75 in |
| Units Per Pallet                      | 1080                  |

#### Operating Specifications

|                                |      |
|--------------------------------|------|
| Expected Lifetime (Operations) | 6000 |
|--------------------------------|------|

#### Environmental Specifications

|                    |                          |
|--------------------|--------------------------|
| Operating Humidity | 0-95% RH, Non-condensing |
|--------------------|--------------------------|

|                                        |                            |
|----------------------------------------|----------------------------|
| Display Operating Temperature Min (°F) | -13                        |
| Display Operating Temperature Min (°C) | -25                        |
| Temperature (operation)                | -25 - 55 °C / -13 - 131 °F |

**Standards and Certifications**

|                                          |                     |
|------------------------------------------|---------------------|
| Other Certifications and Compatibilities | cRUus; CE; Title 20 |
| RU File Number                           | #E10694             |
| California Proposition 65                | None                |
| RoHS Certification                       | Y                   |