

## Electromechanical Time Switch - 40 A, Auto-voltage General Purpose Time Control

Item GM40AV-QW



### PRODUCT DESCRIPTION

The GM40AV Time Switch is a universal, electromechanical time switch designed for general purpose residential and commercial applications. The robust 40 A time switch automatically detects the input voltage without the use of a DIP switch or selector pins. The time switch automatically selects any voltage between 120-277 VAC. The mechanism is mounted in a compact UL Type 3R outdoor enclosure and can also be easily retrofitted into other Intermatic enclosure types. The time switch features a DPDT switching configuration standard (i.e. two normally open and two normally closed contacts).

### FEATURES

- ▶ Auto-voltage selection 120 VAC-277 VAC.
- ▶ Captive trippers - trippers cannot be lost.
- ▶ 40 A rating.
- ▶ Self-recharging battery backup, "Q" models feature 72-hour carry-over.
- ▶ Power and status LED indicators.
- ▶ 24-Hour or 7-day models available.
- ▶ Up to 48 ON/OFF operations per 24-hour period or 42 ON/OFF operations per week on "W" models.
- ▶ DPDT switching configuration standard (2 NO and 2 NC Contacts).
- ▶ Manual three-way ON/OFF/AUTO override switch.
- ▶ Easy-to-read clock face.

### APPLICATIONS

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

### TECHNICAL DATA

| General                                  |                                                 |
|------------------------------------------|-------------------------------------------------|
| Model Number                             | GM40AV-QW                                       |
| Description                              | 40 A, Auto-voltage General Purpose Time Control |
| UPC Code                                 | 078275140974                                    |
| Brand                                    | Domestic Intermatic                             |
| Country of Origin (Intermatic)           | MEXICO                                          |
| Warranty Period                          | 1-Year limited                                  |
| Control Specifications                   |                                                 |
| Minimum ON/OFF Times                     | 2 hours                                         |
| Maximum ON/OFF Times                     | 2 hours                                         |
| Operation Mode                           | 7 day                                           |
| Backup Type                              | 72-hour Carry-over; Battery; Self-recharging    |
| Backup Protection Time                   | 72 Hours                                        |
| Battery Service Type                     | Non-Replaceable                                 |
| Mechanism Type                           | Electromechanical                               |
| Has Captive Trippers                     | Yes                                             |
| Has Override Switch                      | Yes                                             |
| Has Real-time Clock Face                 | Yes                                             |
| Chemical Composition of the Battery Cell | Ni-MH                                           |

|              |    |
|--------------|----|
| On Events    | 48 |
| Off Events   | 48 |
| Total Events | 96 |

**Mechanical Specifications**

|                             |                                |
|-----------------------------|--------------------------------|
| Enclosure Type              | Indoor/outdoor type 3R plastic |
| Number of Trippers Included | 84                             |

**Dimensions**

|                                   |                      |
|-----------------------------------|----------------------|
| Product Dimensions (H x W x D) in | 8.875 x 6.609 x 3 in |
| Wire Size Max                     | #8 AWG               |

**Material Specifications**

|       |      |
|-------|------|
| Color | Gray |
|-------|------|

**Load Ratings**

|                                     |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| Magnetic Ballast (NO) Range(s)      | 30 A, 120 VAC; 20 A, 277 VAC                                       |
| Magnetic Ballast (NC) Range(s)      | 10 A, 277 VAC                                                      |
| Resistive (NO) Range(s)             | 40 A, 120-277 VAC                                                  |
| Resistive (NC) Range(s)             | 30 A, 120-277 VAC                                                  |
| Pilot Duty (NO) Range(s)            | 300 VA, 120-240 VAC                                                |
| Motor Load (NC) Range(s)            | 1 HP, 12 FLA, 30 LRA @ 120 VAC; 2 HP, 10 FLA, 30 LRA @ 240 VAC     |
| Motor Load (NO) Range(s)            | 1 HP, 16 FLA, 90 LRA @ 120 VAC; 2 HP, 12 FLA, 52 LRA @ 208-277 VAC |
| Tungsten Incandescent (NC) Range(s) | 2 A, 120 VAC                                                       |
| Tungsten Incandescent (NO) Range(s) | 15 A, 120 VAC                                                      |

**Electrical Specifications**

|                                |                                |
|--------------------------------|--------------------------------|
| Maximum Power Consumption (VA) | 7                              |
| Voltage Selection Type         | Auto-Voltage                   |
| Wiring Option                  | Screw box lug                  |
| Input Voltage Range(s)         | 120-277 VAC, 50/60 Hz          |
| Switch Type                    | DPDT                           |
| Power consumption (V)          | 1 VA                           |
| Electrical Life                | 50,000 operations at full load |

**Packaging**

|                                       |                     |
|---------------------------------------|---------------------|
| Shipping Weight (lbs)                 | 1.896               |
| Unit Carton Dimensions (H x W x L) in | 9.125 x 3 x 6.75 in |

**Environmental Specifications**

|                         |                                      |
|-------------------------|--------------------------------------|
| Operating Humidity      | 0-95% RH, Non-condensing             |
| Temperature (operation) | -40 °F to 131 °F / (-40 °C to 55 °C) |

**Standards and Certifications**

|                                          |                        |
|------------------------------------------|------------------------|
| UL Certification                         | cULus                  |
| Other Certifications and Compatibilities | Title 20; Green Energy |
| UL File Number                           | #E10694                |



|                           |         |
|---------------------------|---------|
| RU File Number            | #E10694 |
| California Proposition 65 | None    |
| RoHS Certification        | N/A     |