

# GRÄSSLIN

*The First and Only...*

# Multi-Voltage Defrost Timer

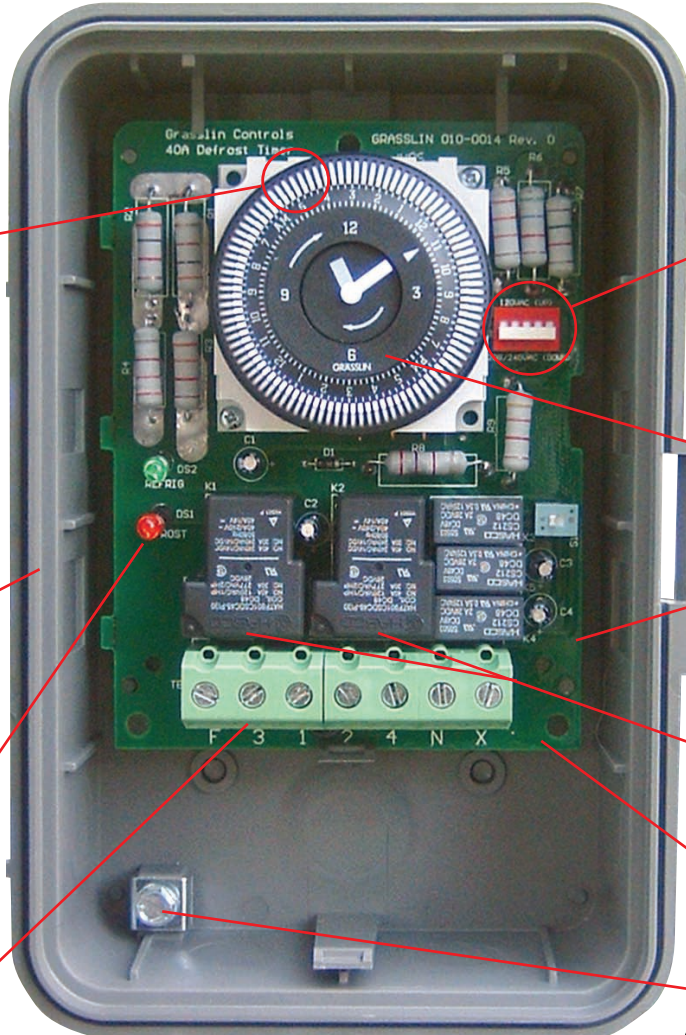
**NOW WITH  
40 AMPS!**

 FrostKing  
**DTMV40**



**One Defrost Timer  
is All You Need!**

## Time Initiated, Temperature, Pressure or Time Terminated Multi-Voltage Defrost Timers



**Captive Trippers Can't Be Lost**  
Independently Adjustable Trippers Allow For Full or Partial Defrost Cycles on 15 Minute Intervals

**NEW**  
New Compact VALOX® NEMA 3R Outdoor Enclosure Replaces All Metal Enclosures

Red and Green LED Lights Indicate Defrost or Run Cycle

**NEW**  
Large Screw Terminals for Easy Wiring #8 AWG

**NEW**  
Easy Multi-Voltage Field Adjustable DIP Switch for 120 or 208/240 VAC

Real-Time Clock Face

**NEW**  
NO TOOLS REQUIRED!  
Our "GUTS" simply snap into existing enclosure

**NEW**  
40 Amp Rated Contacts

**NEW**  
Moisture Resistant Conformal Coated Board

**NEW**  
Ground Lug Termination

Grasslin Controls  
40A Defrost Timer  
GRASSLIN 010-0014 Rev. 0

120VAC (UP)  
208/240VAC (DOWN)

UL LISTED 8827 File #E83486 Covered by U.S. Patent #6,563,237

## DTMV<sup>40</sup> 120 or 208/240 Volts – The only one to stock.

### SPECIFIERS GUIDE

Furnish and install a Grasslin DTMV40 defrost control which is field adjustable for 120V or 240V operation and shall have defrost initiation times settable to the quarter hour via captive trippers at 15 minute intervals. The defrost timer shall be housed in a NEMA 3R indoor/outdoor plastic enclosure. The relay output will be rated for 40A Resistive, 2HP @ 250VAC. Defrost termination to be by time (and by a remote temperature or pressure switch).

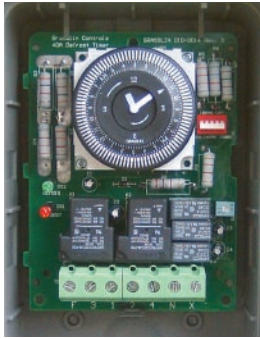
### SPECIFICATIONS

Switch Rating:  
40A Resistive @ 120VAC, 208~240VAC  
2HP @ 208~240VAC; 1HP @ 120VAC  
16FLA, 90LRA @ 120VAC  
12FLA, 52LRA @ 240VAC  
"F" Terminal: 30A Resistive @ 120~240VAC  
1HP @ 120VAC; 2HP @ 208~240VAC

Wiring Connections: Screw box lug terminals accommodate up to four #8 AWG wires.

Environmental Ratings:  
Operating Temperature Range: -40°F to 131°F (-40°C to 55°C)  
Operating Humidity: 0 to 95% non-condensing  
Dimensions: 8.795" x 6.631" x 2.935" (H x W x D)  
Shipping Weight: 2 lbs.

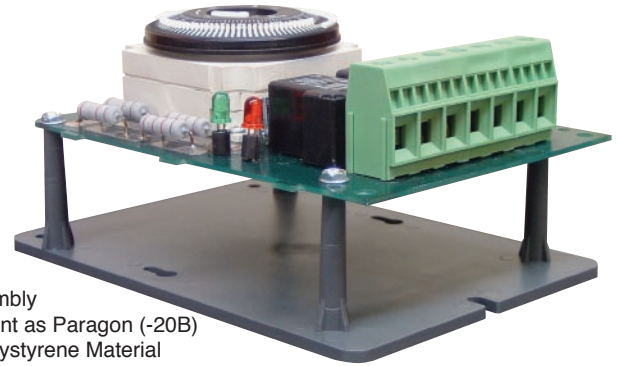
# Mechanism Only



**DTMV40-M**

Fits Into Competitors Enclosure

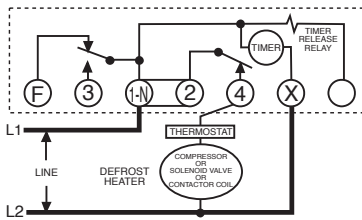
# Bracket Mount



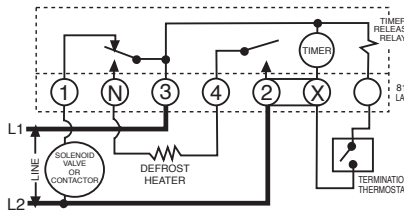
**DTMV40-B**

- All-in-one Assembly
- Identical Footprint as Paragon (-20B)
- High Impact Polystyrene Material
- UL94HB Flame Class Rated
- Electrically Isolated

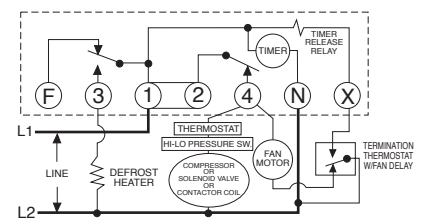
DTMV40 Time/Time–Electric or Air Defrost Wiring Diagram



DTMV40 Time/Temperature–Electric Defrost Wiring Diagram



DTMV40 Time/Temperature–Electric Defrost Wiring Diagram



NOTE: Fan motor may be connected to “F” terminal instead of “4” terminal if desired.

## Universal Replacement

**GRASSLIN  
DTMV40**

### PARAGON      PRECISION

8141-00	6141-00
8143-00	6143-00
8145-00	6145-00
8041-00	6041-00
8043-00	6043-00
8045-00	6045-00
8046-00	
8047-00	6047-00
8141-20	6141-20
8143-20	6143-20
8145-20	6145-20
8041-20	6041-20
8043-20	6043-20
8045-20	6045-20
8046-20	
8047-20	6047-20
8245-20*	6245-20
8243-20*	6243-20
8247-20*	6247-20

\* Recommended Pressure Switches: Johnson/Penn P170, Ranco 010 series, or Danfoss KP1 series. Pressure range approximately 35-110psi, Cut-in on pressure rise.

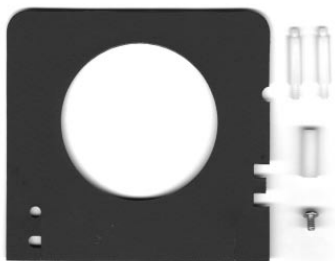


**NO TOOLS REQUIRED!**

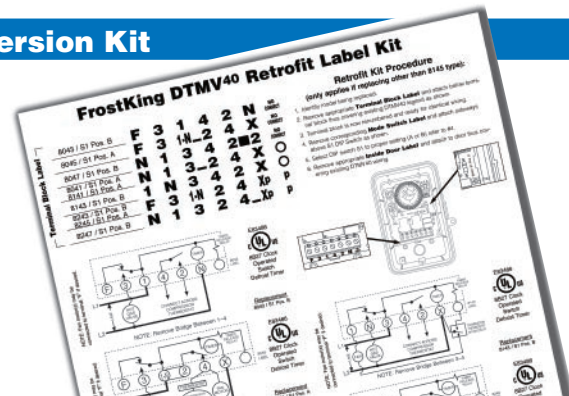
Simply snaps into existing enclosure. Wiring is identical—no need to change.

## Retrofit Conversion Kit

### Insulator and Standoffs



**Universal Replacement Labels**



# Ordering Data

## Time Initiated, Remote Temperature, Pressure, or Time Terminated

Model Code	Voltage	Mounting	Timer Type	Battery Backup Duration	Defrost Frequency No./Day	Defrost Duration	Minimum Duration Interval
DTMV40	120V, 208/240V, 60Hz	NEMA 3R Outdoor Enclosure	Synchronous	N/A	1 to 24	15-180 min.	15 min.
DTMV40-M	120V, 208/240V, 60Hz	Mechanism Only	Synchronous	N/A	1 to 24	15-180 min.	15 min.
DTMV40-B	120V, 208/240V, 60Hz	Bracket Mount	Synchronous	N/A	1 to 24	15-180 min.	15 min.
DTMV40-P	120V, 208/240V, 60Hz	Panel Mount	Synchronous	N/A	1 to 24	15-180 min.	15 min.
DTQMV40	120V, 208/240V, 60Hz	NEMA 3R Outdoor Enclosure	Quartz	1 week	1 to 24	15-180 min.	15 min.
DTQMV40-M	120V, 208/240V, 60Hz	Mechanism Only	Quartz	1 week	1 to 24	15-180 min.	15 min.
DTQMV40-B	120V, 208/240V, 60Hz	Bracket Mount	Quartz	1 week	1 to 24	15-180 min.	15 min.
DT140 Digi 20-120	120V, 50/60Hz	NEMA 3R Outdoor Enclosure	Electronic*	1 week	1 to 8	1-180 min.	1 min.
DT140 Digi 20-240	208/240V, 50/60Hz	NEMA 3R Outdoor Enclosure	Electronic*	1 week	1 to 8	1-180 min.	1 min.

Standard models are also available with 50Hz input in 208/240V \*Rated at 30 Amps

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