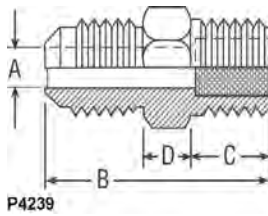


MUELLER - FUSIBLE CONNECTORS

Fusible Connectors — Half Union — Flare to NPTFE

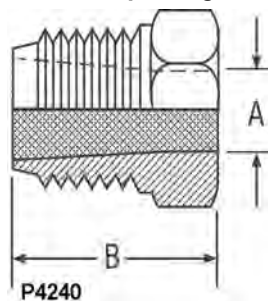
Listed by Underwriters Laboratories, Inc., for use in the USA and Canada



P4239

| PART NO | Part- No | SIZE Flare | Size NPTFE | Size Hex | A | B | C | D | Melting Temp* (°F) | Per Ctn | WT/ EA |
|---------|----------|------------|------------|----------|------|--------|------|------|--------------------|---------|--------|
| FU-4B-* | A 14062 | 1/4 | 1/4 | 9/16 | 3/16 | 1-1/4 | 9/16 | 3/16 | 283 | 10 | .07 |
| FU-4C-* | A 14063 | 1/4 | 3/8 | 11/16 | 3/16 | 1-5/16 | 9/16 | 1/4 | 283 | 10 | .09 |
| FU-6C-* | A 14064 | 3/8 | 3/8 | 11/16 | 9/32 | 1-7/16 | 9/16 | 1/4 | 283 | 10 | .12 |
| FU-4B-* | A 14023 | 1/4 | 1/4 | 9/16 | 3/16 | 1-1/4 | 9/16 | 3/16 | 210 | 10 | .06 |
| FU-4C-* | A 14025 | 1/4 | 3/8 | 11/16 | 3/16 | 1-5/16 | 9/16 | 1/4 | 210 | 10 | .09 |
| FU-6C-* | A 14026 | 3/8 | 3/8 | 11/16 | 9/32 | 1-7/16 | 9/16 | 1/4 | 210 | 10 | .12 |
| FU-4B-* | A 14024 | 1/4 | 1/4 | 9/16 | 3/16 | 1-1/4 | 9/16 | 3/16 | 168 | 10 | .06 |
| FU-4C-* | A 14050 | 1/4 | 3/8 | 11/16 | 3/16 | 1-5/16 | 9/16 | 1/4 | 168 | 10 | .09 |
| FU-6C-* | A 14027 | 3/8 | 3/8 | 11/16 | 9/32 | 1-7/16 | 9/16 | 1/4 | 168 | 10 | .13 |

Fusible Pipe Plugs



P4240

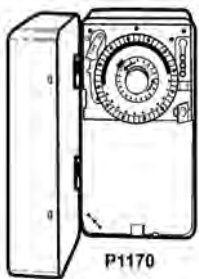
Listed by Underwriters Laboratories, Inc., for use in the USA and Canada

| PART NO | Part- No | Size NPTFE | Size Hex | A | B | Melting Temp* (°F) | Pcs, Per Ctn | WT/ EA |
|---------|----------|------------|----------|------|-------|--------------------|--------------|--------|
| FP-A-* | A 14058 | 1/8 | 7/16 | 7/32 | 19/32 | 283 | 10 | .02 |
| FP-B-* | A 14059 | 1/4 | 9/16 | 1/4 | 25/32 | 283 | 15 | .05 |
| FP-C-* | A 14060 | 3/8 | 11/16 | 3/8 | 27/32 | 283 | 15 | .08 |
| FP-A-* | A 14017 | 1/8 | 7/16 | 7/32 | 19/32 | 210 | 10 | .03 |
| FP-B-* | A 14018 | 1/4 | 9/16 | 1/4 | 25/32 | 210 | 15 | .05 |
| FP-C-* | A 14021 | 3/8 | 11/16 | 3/8 | 27/32 | 210 | 15 | .06 |
| FP-A-* | A 15214 | 1/8 | 7/16 | 7/32 | 19/32 | 168 | 10 | .02 |
| FP-B-* | A 14019 | 1/4 | 9/16 | 1/4 | 25/32 | 168 | 15 | .04 |
| FP-C-* | A 14022 | 3/8 | 11/16 | 3/8 | 27/32 | 168 | 15 | .06 |

*Melting Temperature Equivalents — 283° F (139° C), 210° F (99° C), 168° F (76° C).ex
FP-A-283

PARAGON® - COMMERCIAL REFRIGERATION DEFROST CONTROLS

8040 SERIES

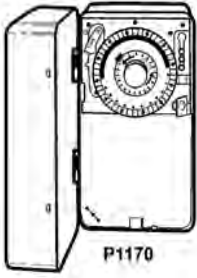


- Frequency of defrost initiation is adjustable from 1-6 cycles per day. Minimum of 4 hours between successive operations.
- Duration of defrost cycle is adjustable from 4-110 minutes in 2 minute increments.
- Accuracy of defrost duration \pm 2 minutes.
- Choice of 4 contact arrangements for electric heat, hot gas or compressor shutdown defrost.
- Positive switch action slider bar.
- Heavy duty synchronous motor.
- Heavy steel enclosure. Grey finish. Knockouts on bottom, back and sides. Hasp and staple for padlock. Available on bracket for sub-panel mounting.

| PART NO | AC LINE 60 HZ VOLTS | SWITCH ARRANGEMENT CONTACTS | | | ADJ LENGTH OF DEFROST |
|---------|---------------------|-----------------------------|------|--------|-----------------------|
| | | 2-4 | 1-3 | 3-N | |
| 8041-00 | 120 | Closed | Open | Closed | 4-110 Min. |
| 8041-20 | 208-240 | Closed | Open | Closed | 4-110 Min. |
| 8045-00 | 120 | Closed | Open | None | 4-110 Min. |
| 8045-20 | 208-240 | Closed | Open | None | 4-110 Min. |
| 8047-00 | 120 | Open | Open | Closed | 4-110 Min. |
| 8047-20 | 208-240 | Open | Open | Closed | 4-110 Min. |

PARAGON® - COMMERCIAL REFRIGERATION DEFROST CONTROLS

8140 SERIES



- Frequency of defrost is 1-6 cycles per day. Minimum of 4 hours between successive defrost cycles.
- Adjustable back-up defrost termination from 4-110 minutes in 2 minute increments.
- Control works with an external temperature or pressure sensor.
- Choice of 3 contact arrangements for electric heat, compressor shutdown defrost or hot gas defrost.
- Positive switch action slider bar.
- Heavy duty synchronous industrial type motor.
- Heavy steel enclosure. Grey finish. Knockouts on bottom, back and sides. Hasp and staple for padlock. Available on bracket for sub-panel mounting.

| PART NO | AC LINE 60 HZ VOLTS | NORMAL POSITION OF CONTACTS DURING REFRIGERATION CYCLE | | |
|---------|---------------------|--|-------------|-------------|
| | | CONTACT N-3 | CONTACT 1-3 | CONTACT 2-4 |
| 8141-00 | 120 | Closed | Open | Closed |
| 8141-20 | 208-240 | Closed | Open | Closed |
| 8143-00 | 120 | Open | Closed | Open |
| 8143-20 | 208-240 | Open | Closed | Open |
| 8145-00 | 120 | None | Open | Closed |
| 8145-20 | 208-240 | None | Open | Closed |

8240 SERIES



- Frequency of defrost is 1-6 cycles per day. Minimum of 4 hours between successive defrost cycles.
- Adjustable back-up defrost termination from 4-110 minutes in 2 minute increments.
- Choice of 3 contact arrangements for electric heat, compressor shutdown defrost or hot gas defrost.
- Positive switch action slider bar.
- Heavy duty synchronous industrial type motor.
- Heavy steel enclosure. Grey finish. Knockouts on top. Available on bracket for sub-panel mounting.
- Time Initiated, Pressure Terminated, 40 Amp

| PART NO | UPC NO79046 | AC LINE 60 HZ VOLTS | NORMAL POSITION OF CONTACTS DURING REFRIGERATION CYCLE | | |
|---------|-------------|---------------------|--|-------------|-------------|
| | | | CONTACT N-3 | CONTACT 1-3 | CONTACT 2-4 |
| 8245-00 | 00580 | 120 | Closed | Open | None |
| 8245-20 | 00590 | 208-240 | Closed | Open | None |
| 8247-20 | 00610 | 208-240 | Open | Open | Closed |

PARAGON® - UNIVERSAL DEFROST TIMER 9145-9045 SERIES - MULTI-VOLTAGE 120/208-240 VAC



GENERAL INFORMATION

Input power

120/208–240 VAC 60 Hz (+10, -15%)

Power consumption

6VA max, Defrost termination switch (terminal "G") input impedance to terminal C: 85kΩ +/- 5%

Operating voltage

102 VAC min to 132 VAC max @ 60 Hz

176.8 VAC min to 264 VAC max @ 60Hz

NOTE: No user-required adjustments to switch between the high and low voltage.

Ambient operating conditions

-40°F to 131°F (-40°C to 55°C); 0 to 95% RH (non condensing)

Storage temperature

-40°F to 140°F (-40°C to 60°C)

Outside dimensions

Individual unit 4.40"W x 7.82"H x 3.80"D

Individual unit (in shipping box)

4.75"W x 8.875"H x 4.75"D

Individual case shipping weight

3.2 lbs

Agency approvals

c-UR-us Recognized Component – Models 9045-00M & 9145-00M

c-UR-us Listed Product – Models 9045-00 & 9145-00

| Terminal | A | B | C | D | E | F | G |
|---------------------------|---|---|---|------------|---|-------------------|----------------------------|
| Relay | SPDT | SPDT | SPDT | SPST | SPST | L2/N | Defrost Termination |
| Contact | NC Contact | NO Contact | COMM Contact | NO Contact | COMM Contact | Power in to timer | Device Input L2/N side |
| Relay Rating | 15A resistive @ 120 VAC to 240 VAC 1/4HP @ 120 VAC, 1/2HP @ 208 VAC to 240 VAC | 30A resistive @ 120 VAC to 240 VAC 1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC | | | 30A resistive @ 120 VAC to 240 VAC 1HP @ 120 VAC, 2HP @ 208 VAC to 240 VAC | | |
| Device Connections | Fan (Typical) Compressor (Optional) | Defrost Device (Typical) | L1 Power to timer and to Defrost Termination Device | | Compressor (Typical) Fan (Optional) | | Defrost Termination Switch |

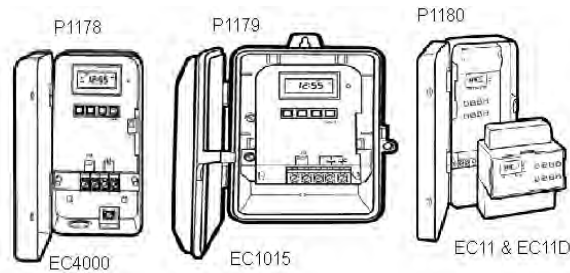
* 9145 is a general purpose defrost timer & can be used for both Time Initiate/Time Terminate & Time Initiate/Temperature, Pressure Terminate

| Terminal | A | B | C | D | E | F | G |
|---------------------------|--|--------------|-------------------|------------|---|-------------------|---------------|
| Relay | SPST #1 | SPST #1 | L1 | SPST #2 | SPST #2 | L2/N | No Connection |
| Contact | NC Contact | COMM Contact | Power in to timer | NO Contact | COMM Contact | Power in to timer | |
| Relay Rating | 30A resistive @ 120VAC to 240 VAC 1HP @ 120 VAC, 2HP @208 VAC to 240VAC | | | | 30A resistive @ 120 VAC to 240 VAC 1HP @ 120 VAC, 2HP @208 VAC to 240VAC | | |
| Device Connections | Compressor (Typical) | | | | Defrost Device (Typical) | | |

Ordering Information: 9145-00 Time Initiate/Temperature, Pressure Terminate Defrost Timer with Metal Enclosure
9045-00 Time Initiate/Time Terminate Defrost Timer with Metal Enclosure

PARAGON® - ELECTRONIC TIME CONTROLS

EC4000 SERIES 24-HOUR OR 7-DAY



EC4000 Series - 24-hour, single-channel, capacitor carry-over

The EC4000 Series are 24-hour, single-channel, electronic time controls that provide simple, inexpensive control of electrical loads with a time-of-day schedule. As a 24-hr. control, the same ON/OFF schedule is utilized each day Saturday and/or Sunday, or any other day(s) of the week may be skipped. The skipped day(s) can be either load on all day or load OFF all day, depending upon application. Sixteen events are available to provide programming versatility. An event defines an activity either load ON or load OFF. The EC4000 Series are available in either a NEMA 1 steel enclosure or a NEMA Type 3R non-metallic enclosure for indoor or outdoor use.

- 24-hr. programming with skip-a-day.
- Four-day minimum power outage carry-over without the use of a battery.
- 20 amp ballast switch rating on DPST model (UL only).
- 16 ON or OFFs per day.
- SPST, SPDT and DPST switching.
- NEMA 1 or NEMA Type 3R enclosure.
- Large display & simple programming with just 4 keys.

| PART NO | RATING PER POLE | TYPE OF OUTPUT | ENCLOSURE TYPE NEMA | SHIPPING | |
|------------------------------|-----------------|----------------|---------------------|----------|--------|
| | | | | WGT Lb | WGT Kg |
| EC4000/120V | 20A | SPDT | 1 | 2 | 0.9 |
| EC4000PC/120V | 20A | SPDT | 3R | 2-1/2 | 1.1 |
| EC4000/208-277V | 20A | SPDT | 1 | 2 | 0.9 |
| EC4000PC/208-277V PC/240V | 30A | SPDT | 3R | 2-1/2 | 1.1 |
| EC4004/120V | 30A | SPST | 1 | 2 | 0.9 |
| EC4004PC/120V | 30A | SPST | 3R | 2-1/2 | 1.1 |
| EC4004/208-277V | 30A | SPST | 1 | 2 | 0.9 |
| EC4004PC/208-277V | 30A | SPST | 3R | 2-1/2 | 1.1 |
| EC4005PC/120, 208-240V | 30A | DPST | 3R | 2-1/2 | 1.1 |

PARAGON® - ELECTRONIC TIME CONTROLS

EC7000 SERIES 24-HOUR OR 7-DAY

EC7000 Series - 24-hour and 7-day, single-channel, capacitor carry-over



EC7000 Series are single-channel, electronic time controls that provide simple, inexpensive control of electrical loads with a time-of-day schedule. When schedules vary from day to day, the 7-day programming capability allows a different schedule for each day of the week. With 16 set points available, the EC7000 Series provides programming versatility. Models are also available to provide two individually programmable durations of one to 59 seconds in addition to the maintained ON and OFF set points. This provides ideal control for bell or chime ringing in schools and factories. The EC7000 Series Controls are ideal for indoor and outdoor lighting, billboard and security lighting, school crossing lights, heating, ventilating, bell, chime and buzzer ringing, water heater and security system control.

- 24-hr. or 7-day programming - 7-day programming allows greater flexibility thus added energy savings by allowing loads to remain on only when needed.
- 4-day minimum power outage carry-over without the use of batteries. Eliminates the need to replace batteries and the environmental concerns of battery disposal. 16 set points, 30 amp heavy duty relay-output allows switching most electrical loads without the use of contactors.
- To-the-minute programming with just four keys and a large easy to read display that uses visual prompts for ease of programming.
- SPST, SPDT, DPST switching designed for high immunity to electrical noise. Momentary feature available.
- Recessed reset button
- Available in NEMA Type 3R (EC7005) or NEMA 1 enclosures.

NOTE:

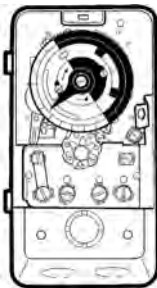
- Also available in 50 amp.
- Contact your nearest branch for details and other available models.
- PC= Non Metallic Enclosure NEMA 3R may be used Indoor or Outdoor.

| PART NO | RATING PER POLE | TYPE OF OUTPUT | ENCLOSURE TYPE NEMA | SHIPPING | |
|-------------------------|-----------------|----------------|---------------------|----------|--------|
| | | | | WGT Lb | WGT Kg |
| EC7000/24V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7000/120V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7000/208-277V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7001PC/12VDC | 10A | SPDT | 3R | 1-1/2 | 0.7 |
| EC7001/24V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7001/120V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7001/208-277V | 20A | SPDT | 1 | 2 | 0.9 |
| EC7004/120V | 30A | SPST | 1 | 2 | 0.9 |
| EC7004/208-277V | 30A | SPST | 1 | 2 | 0.9 |
| EC7005PC/120V, 208-240V | 30A | DPST | 3R | 2 | 0.9 |

PARAGON® - 24-HOUR TIME SWITCHES

4000 & 4000S SERIES 24-HOUR

4000, 4010 AND 4210 SERIES



The 4000 series has a 24-hour dial with 2 to 14 replaceable trippers for 1 to 7 "On" and "Off" operations per day. The 4000-S series is the same as the 4000 series but with "Skip-A-Day" feature to allow skipping operations on any day or days of the week without disturbing the preset schedule.

- 1/2 hour minimum On or Off time; 22-1/2 hour maximum On or Off time.
- Manual On/Off lever transfers switch operation without disturbing preset schedule.
- Switch slider bar assures positive switching.
- Heavy duty terminals accommodate up to AWG #8 wire.
- NEMA type 1 indoor case with combination 1/2-3/4 in. knockouts in bottom and sides; hasp for padlock or seal.

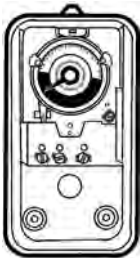
1-1/2 Hour Minimum On or Off Time, 1 to 7 On/Off Operations Per Day

With skip-a-day, allows schedule to be omitted on any day(s) without permanently disturbing preset schedule

| PART NO | SWITCH TYPE | HP | AC LINE VOLTS | ENCLOSURE TYPE NEMA | SHIPPING WEIGHT | |
|----------|-------------|----|---------------|---------------------|-----------------|-----|
| | | | | | Lb | Kg |
| 4001-00 | SPST | 1 | 120 | 1 | 2-1/2 | 1.1 |
| 4001-00B | SPST | 1 | 120 | -- | 2-1/2 | 1.1 |
| 4001-00M | SPST | 1 | 120 | -- | 1-1/8 | 0.5 |
| 4002-71 | SPST | 1 | 208-277 | 1 | 2-1/2 | 1.1 |
| 4002-71B | SPST | 1 | 208-277 | -- | 2-1/2 | 1.1 |
| 4003-00 | DPST | 1 | 120 | 1 | 2-1/2 | 1.1 |
| 4003-00M | DPST | 1 | 208-277 | -- | 1-1/8 | 0.5 |
| 4004-71 | DPST | 1 | 208-277 | -- | 2-1/2 | 1.1 |
| 4004-71B | DPST | 1 | 208-277 | 1 | 2-1/2 | 1.1 |
| 4004-71M | DPST | 1 | 208-277 | -- | 1-1/8 | 0.5 |
| 4005-00B | SPDT | 1 | 120 | -- | 2-1/2 | 1.1 |

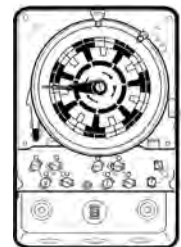
| PART NO | SWITCH TYPE | HP | AC LINE VOLTS | ENCLOSURE TYPE NEMA | Lb | Kg |
|-----------|-------------|----|---------------|---------------------|-------|-----|
| 4003-00S | DPST | 1 | 120 | 1 | 2-1/2 | 1.1 |
| 4003-00SB | DPST | 1 | 120 | -- | 2-1/2 | 1.1 |
| 4003-00SM | DPST | 1 | 120 | -- | 1-1/8 | 0.5 |
| 4004-06S | DPST | -- | 24 | 1 | 2-1/2 | 1.1 |
| 4004-71S | DPST | 1 | 208-277 | 1 | 2-1/2 | 1.1 |
| 4005-00S | SPDT | 1 | 120 | 1 | 2-1/2 | 1.1 |
| 4005-00B | SPDT | 1 | 120 | -- | 2-1/2 | 1.1 |
| 4006-71S | SPDT | 1 | 208-277 | 1 | 2-1/2 | 1.1 |
| 4007-06S | SPDT | -- | 24 | 1 | 3-1/2 | 1.6 |
| 4007-06SB | SPDT | -- | 24 | -- | 2 | 1.1 |

Leaves load on during day(s) scheduled to be skipped



| PART NO | SWITCH TYPE | HP | AC LINE VOLTS | ENCLOSURE TYPE NEMA | Lb | Kg |
|----------|-------------|----|---------------|---------------------|-------|-----|
| 4008-20S | DPST | 1 | 208-240 | 1 | 2-1/2 | 1.1 |

4010 Series -Standard NEMA 3 indoor/outdoor metal or NEMA type 3R plastic enclosure



| PART NO | SWITCH TYPE | HP | AC LINE VOLTS | ENCLOSURE TYPE NEMA | Lb | Kg |
|----------|-------------|----|---------------|---------------------|-------|-----|
| 4011-00 | SPST | 1 | 120 | 3 | 4-3/4 | 2.2 |
| 4011-00P | SPST | 1 | 120 | 3R | 1-3/8 | 0.6 |
| 4013-00 | DPST | 1 | 120 | 3 | 4-3/4 | 2.2 |
| 4013-00P | DPST | 1 | 120 | 3R | 1-3/8 | 0.6 |
| 4014-71 | DPST | 2 | 208-277 | 3 | 4-3/4 | 2.2 |
| 4014-71P | DPST | 2 | 208-277 | 3R | 1-3/8 | 0.6 |
| 4013-00S | DPST | 1 | 120 | 3 | 4-3/4 | 2.2 |
| 4014-71S | DPST | 1 | 208-277 | 3 | 4-3/4 | 2.2 |

PARAGON® - 7-DAY TIME SWITCHES

7000 SERIES

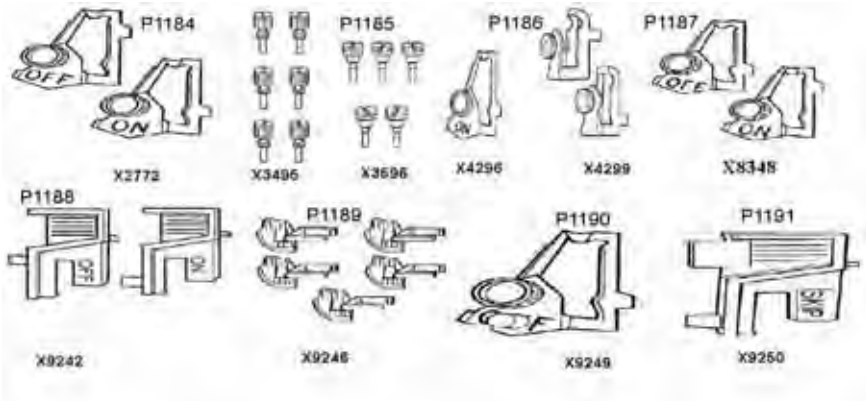
4-Pole, 3 Hour Minimum On or Off Time, 4 On/Off Operations per Day, 28 per Week

| PART NO | SWITCH TYPE | SWITCH RATING PER POLE | | | AC LINE 60 HZ VOLTS | ENCLOSURE TYPE NEMA | Lb | Kg | |
|----------|-------------|------------------------|----|-----|---------------------|---------------------|----|-------|-----|
| | | AMP | T | VA | | | | | |
| 7007-00 | 4PST-4 NO | 40 | 40 | 690 | -- | 120 | 1 | 6-1/2 | 2.9 |
| 7007-06 | 4PST-4 NO | 40 | -- | 345 | -- | 24 | 1 | 6-1/2 | 2.9 |
| 7007-71 | 4PST-4 NO | 40 | 40 | 690 | -- | 208-277 | 1 | 6-1/2 | 2.9 |
| 7008-00 | 2 NO-2 NC | 40 | -- | 690 | 1 | 120 | 1 | 6-1/2 | 2.9 |
| 7008-00B | 2 NO-2 NC | 40 | -- | 690 | 1 | 120 | -- | 6-1/2 | 2.9 |
| 7008-06 | 2 NO-2 NC | 40 | -- | 345 | -- | 24 | 1 | 6-1/2 | 2.9 |
| 7008-71 | 2 NO-2 NC | 40 | -- | 690 | 1 | 208-207 | 1 | 6-1/2 | 2.9 |

*Not UL or CSA listed. Hp rating one pole only. Furnished with 7 sets of on/off trippers. Switch rating per pole = 40 amp. Hertz = 60.

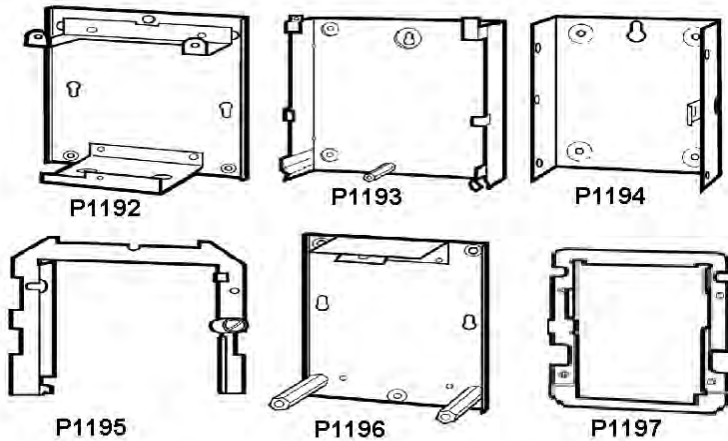
PARAGON® - REFRIGERATION DEFROST CONTROLS/ACCESSORIES

DIAL TRIPPERS, PINS



| PART NO | USE WITH SERIES | QUANTITY PER SET |
|---------|--|----------------------------|
| X2772 | 4000 4010 4210 47017 47217 | 1 ON, 1 OFF |
| X3495 | 4000-S 4000-SZ 4210-S 4210-SZ 47017-S 47017-SZ | 6 cutout pins |
| X3596 | 8025p 8040 8140 8240 | 5 trippers |
| X4296 | 4000-S 4210-S 47017-S 47217-S | Cutout index tripper (ON) |
| X4299 | 7000 7210 | 1 ON, 1 OFF |
| X8348 | 4008-S | 1 ON, 1 OFF |
| X9242 | P100 | 1 ON, 1 OFF |
| X9246 | P100-S | Cutout pins (6) |
| X9249 | 4008-S | Cutout Index tripper (OFF) |
| X9250 | P100-S | Cutout Index tripper (ON) |

Brackets For Panel Mounting



| PART NO | USE WITH SERIES | NOTES | SHIPPING WGT | |
|------------------------------------|--|------------------------------------|--------------|-----|
| | | | LB | KG |
| A454 (X2626) | 8025 8040 8041 | -- | 1-1/2 | 0.7 |
| A536 (X4105) | 4000 4000-S 4000-SZ 4010 4010-S 4010-SZ 41010 EC4000 P100 EC7000 | not for carry-over models | 1-1/2 | 0.7 |
| A537-W (X3967) | 623 1015 42010 1015-40TS | not for carry-over models | 1-1/2 | 0.7 |
| A569 (X5815) | 47017 47217 7000 7010 7210 | may be used with carry-over models | 1-1/2 | 0.7 |
| D874-99 Intermatic Adapter Bracket | 4000 4000-S 4010 4010-S P100 EC4000 EC7000 | not for carry-over models | 3 oz. | 0.1 |
| A1408-99* | EC4000 EC4004 4010PC EC7000 EC7001 EC7004 | -- | 3oz. | 0.1 |

*Must be used with 4010PC.

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration