

DELAY ON BREAK TIMERS

Applications

Helps to protect your equipment from damage which may be caused by the rapid short cycling of compressors.

Primary Function: *Anti-short cycle protection*



ICM203, ICM203F

FEATURES/APPLICATION

- Universal voltage operation
- Higher 1.5 amp power rating
- Compressor lockout/anti-short cycle timer
- Helps to protect compressors from damage caused by rapid short cycling
- Simple, 2-wire hookup
- "F" suffix denotes 6" wire leads

Mode of Operation

Upon application of power, the load is energized. When the thermostat or other switch opens or there is a loss of power, the load is de-energized and the delay period begins. The compressor will not start again during the delay period. Restart occurs after the delay period has elapsed.

SPECIFICATIONS

- **Voltage:** 18-240 VAC
 - 1.5 amps, 15 amp inrush
- **Frequency:** 50/60 Hz
- **Knob-adjustable delays:** .03-10 min. (1.8-600 sec.)
- **Voltage drop:** 3.5 V typical, 4.5 V max. @ 1.5 amps
- **Holding current min.:** 40 mA
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- ICM203**
- **A-1:** EAC-501-ADJ
 - **Diversified:** AC-503
 - **Mars:** 32001, 32387, 32392
 - **Robertshaw:** 3310-072
 - **Supco:** TD72, TD73
 - **Wagner/DiversiTech:** ADB-1
- ICM203F**
- **Supco:** TD73W
 - **Wagner/DiversiTech:** ADB-2

ICM206

FEATURES/APPLICATION

- Brownout protection
- UL 873 recognition as compressor controller
- Helps prevent scroll compressor reversal
- Fast response time: 16 ms
- Compressor lockout/anti-short cycle timer
- Eliminates relay chatter due to thermostat bounce or tampering
- Works with anticipator-type thermostats

SPECIFICATIONS

- **Voltage:** 18-30 VAC
 - 1.5 amps, 15 amp inrush
- **Frequency:** 50/60 Hz
- **Time delays:** 3 to 10-minute adjustable time delay
- **Holding current min.:** 40 mA
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- **A-1:** EAC-426-ADJ
- **Supco:** TD74



BYPASS TIMERS

Applications

Designed to bypass a control or device during startup. Typically used to bypass a low pressure switch during compressor heat pump startup or to bypass an oil pressure switch upon startup. Helps to eliminate nuisance lockouts.

Primary Function: *To bypass a switch or device during startup*



ICM175

FEATURES/APPLICATION

- Designed to bypass a low pressure switch or other device during startup
- Ideal for low ambient startups
- Key component for "winter start" kits
- Helps to reduce nuisance lockouts
- Universal AC voltage operation
- Knob-adjustable time delay
- Epoxy-encapsulated circuitry

Mode of Operation

With power applied to the input, the load energizes immediately and remains energized for the length of the time delay, regardless of the state of the switch being bypassed. At the end of the time delay, the condition of the load is determined by the state of the switch.

SPECIFICATIONS

- **Voltage:** 18-240 VAC
 - 1 amp
 - 10 amp inrush
 - 40 mA holding current
- **Frequency:** 50/60 Hz
- **Knob adjustable time delay:** 10-1,000 sec.
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- **Mars:** 32395
- **Supco:** TD32

DELAY ON MAKE TIMERS

Applications

Ideal for compressor staging and stagger starting multiple motors and other equipment. Helps to reduce power surges.

Primary Function: *Ideal for compressor staging*

Mode of Operation

When power is applied to the input, the time delay begins. After the time delay is complete, the load energizes.



ICM102, ICM102F

FEATURES/APPLICATION

- Universal voltage operation
- Higher 1.5 amp power rating
- Knob-adjustable time delays
- Works with anticipator-type thermostats
- One model replaces many in field
- Ideal for compressor staging
- Simple 2-wire hookup
- "F" suffix denotes 6" wire leads

SPECIFICATIONS

- **Voltage:** 18-240 VAC
 - 1.5 amps
 - 15 amp inrush
 - 40 mA holding current
- **Frequency:** 50/60 Hz
- **Adjustable delay:** .03-10 min (1.8-600 secs)
- **Voltage drop:** 2.5 V @ 1.5 amps
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- ICM102**
- **A-1:** EAC-701-ADJ
 - **Diversified:** AC-800
 - **Gemline:** 1C310, 1C213
 - **Mars:** 32019, 32391, 32367
 - **Supco:** TD69
 - **Wagner/DiversiTech:** ADM-1
- ICM102F**
- **Supco:** TD69W
 - **Wagner/DiversiTech:** ADM-2

ICM103

FEATURES/APPLICATION

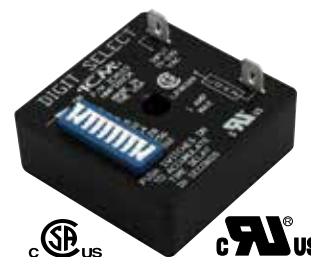
- Highly precise digital timing
- Switch-settable time delays
- Ideal for ice machine applications
- Universal voltage operation
- Repeat accuracy .5% over voltage and temperature range

SPECIFICATIONS

- **Voltage:** 18-240 VAC
 - 1 amp
 - 10 amp inrush
 - 40 mA holding current
- **Frequency:** 50/60 Hz
- **Switch-settable delays:** Range from 1-1,023 sec.
- **Voltage drop:** 2.5 V @ 1 amp
- **Dimensions:** 2.00" x 2.00" x 1.25"

REPLACES

- **A-1:** 7061
- **Gemline:** 1C213
- **Ice-O-Matic:** TD3001A
- **Mars:** 32394, 32396
- **Robertshaw:** 3310-068
- **Supco:** TMF-19, TMF-80



ICM104

FEATURES/APPLICATION

- Highly precise digital circuitry
- High power, SPDT relay output
- Input to output isolation
- Works with anticipator-type thermostats
- Repeat accuracy .5% over voltage and temperature range
- Rugged, compact package

SPECIFICATIONS

- **Voltage:** 18-30 VAC
- **Frequency:** 50/60 Hz
- **Output:**
 - **N.O.:** 20 amps @ 240 VAC
 - **N.C.:** 10 amps @ 240 VAC
- **Form:** SPDT, 1 form C
- **Knob-adj. time delay:** 10-1,000 sec.
- **Dimensions:** 3.00" x 2.00" x 1.25"

REPLACES

- **Mars:** 32394/32398