

HVACR Controls by ICM

Specifically designed for Heating, Ventilation, Air Conditioning and Refrigeration Applications

- Motor protection
- Defrost Controls
- Duty cycle timers
- Delay on make timers
- Delay on break timers
- RapidStart® motor starters
- Fan blower controls
- Head pressure controls
- Lead-lag controls
- · Multi-mode digital timers
- Random start and bypass timers











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3-Phase Line Voltage Monitors - Full Performance

ICM's line voltage monitors were specifically designed to protect compressor motors and other 3-phase loads from premature failure or damage due to common voltage faults. They offer complete system protection by monitoring both the source (front) and load (back) side of the system including the power, motor and contactor lines. In addition, an integral "delay on break timer" guards against rapid short cycling at both the control circuit and the 3phase lines. Compact and easy to install, the ICM400 and ICM450 provide highly reliable protection for your valuable equipment.



Features and Applications

- Lower cost, full performance version featuring bright LED indicators to display system faults
- Monitors "front" and "back" sides of system
- Universal voltage operation: 190-630 VAC
- Knob-adjustable features and system set points
- Reset mode: choice of auto or manual (lockout)
- · Built-in anti-short cycle protection
- Protects against voltage unbalance, high/low voltage, phase loss, reversal, faulty power, incorrect sequencing and rapid short cycling
- 6.5" x 4.25" x 1.5"

Specifications

- Voltage: 190-630 VAC
- Frequency: 50/60 Hz
- Voltage Unbalance: adjustable: 2-25%
- Control: 18-240 VAC
- Delay on Break timer: .1-5 minutes
- Output: Relay, SPDT N.O.: 10 amps N.C.: 6 amps

Replaces

- Diversified: AC-2020, AC-301, AC 302
- Motorsaver: 455
- SSAC: QLM/QLV
- •Time Mark: 265
- Wagner: WPC-800
- Watsco: EAC-800, EAC-8000



Features and Applications

- Fully programmable with LCD diagnostic display
- Easy to configure simple push button setup
- Easy to customize set points, variables and features are fully adjustable and may be defined by the user while in control SETUP mode
- 25-fault memory storage, non-volatile
- Independent high and low voltage settings ideal for dual voltage compressor applications
- · Identifies front and back side faults
- Reset mode: choice of auto or manual
- Protects against: voltage unbalance, high/low voltage, phase loss, reversal, faulty power, incorrect sequencing and rapid short cycling
- Reliable, high temperature LCD to 167°F
- Simultaneous voltage display, no scrolling
- Line voltage programmable
- Universal voltage operation: 190-630 VAC
- 6.5" x 4.25" x 1.5"

Specifications

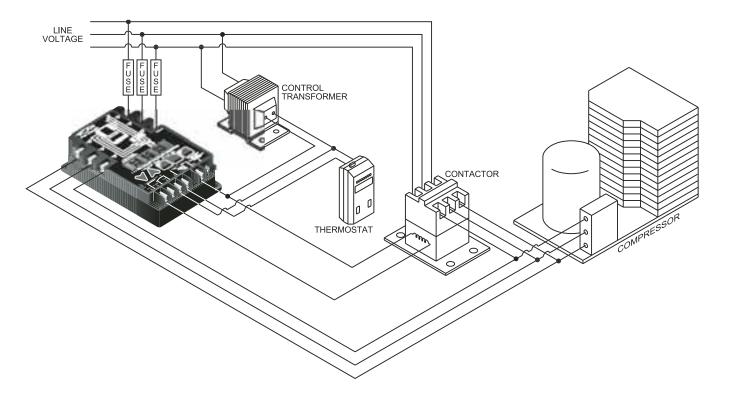
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Replaces

- Diversified: AC-2020, AC 301, AC 302
- Motorsaver: 455SSAC: QLM/QLVTime Mark: 265Wagner: WPC-800
- Watsco: EAC-800, EAC-8000



Typical System Diagram for ICM450





Phase Loss & Reversal Protection - Ultra Low Cost



Features and Applications

- Low cost 3-phase protection for single side
- Monitors for phase reversal, phase loss, unbalance % as a function of input voltage
- Bright LED indicators for ON and FAULT
- Universal 3-phase input: 190-600 VAC
- Control voltage: 18-30 VAC
- Highly reliable passive electronics
- Epoxy coated for added protection
- Patented: U.S. Patent No. 5,337,206
- ICM401 enclosed model shown
- For open-board model order ICM403
- 3.25" x 3" x 1.25"

Specifications

- Voltage: 190-600 VAC
 Frequency: 50/60 Hz
 Control: 18-30 VAC
 Output: Polov SPDT
- Output: Relay, SPDT N.O.: 10 amps



MON0001 ICM402C

Features and Applications

- Low cost 3-phase protection for single side
- Monitors for phase reversal, phase loss, unbalance % as a function of input voltage
- Bright LED indicators for ON and FAULT
- Universal 3-phase input: 190-600 VAC
- Control voltage input: 115, 208, 240 VAC
- Highly reliable passive electronics
- Epoxy coated for added protection
- Patented: U.S. Patent No. 5,337,206
- ICM402 enclosed model shown at left
- For open board model order ICM404
- 3.25" x 3" x 1.25"

Specifications

- Voltage: 190-600 VAC
- Frequency: 50/60 Hz
- Control: 115 or 208/240 VAC
- Output: Relay, SPDT N.O.: 30 amps



TMR00187 ACS-8

Features and Applications

- Relay socket
- 8-pin octal plug-in base
- · Locating key ensures proper orientation
- For use with ICM408, ICM410-427, ICM500-505
- Rated for 480 VAC

Specifications

• 10 amps up to 480 VAC

Replaces

Diversified: RB-08



Single Phase Motor Protection Three Phase Line Monitor



MON00019 ICM409

The ICM 409 is a low cost three-phase voltage monitor with fault indicator.

Specifications

User Selectable Universal Voltage

• 190VAC - 480VAC

User Selectable Unbalance Voltage • 2-8%

User Selectable Delay on Make (staggered start) Timer

• .1 - 5 Minutes

User Selectable Anti-Short Cycle (ASC)/ Delay on Break Timer

• .1 - 5 Minutes

High/Low Voltage Cut-out

- High Voltage Cut-out setpoint + 12%
- Low Voltage Cut-out sepoint 12%

Power/Phase Loss Detection

Within 100mS

Power Reversal Detection

 Detects Phase Reversal condition on Power Up

Relay Contact Ratings

- N.C. Contacts: 10A Resistive @ 250VAC
- N.O. Contacts: 10A Resistive @ 250VAC

Operating Frequency

• 50/60 Hz

Maximum Operating/Storage Relative Humidity

• 95% Non-Condensing

Storage Temperature Range

• -40°C to 85°C

Connection Terminals

 Screw down terminals provide easy hookup for both Line voltage and Control circuit wires.

Conformal Coated Circuit

 Conformal coated circuit provides use in Extreme Environment Conditions.

Protects against

- Low voltage
- High voltage
- Power interruptions
- Phase loss
- Unbalanced voltage
- Phase reversal

Features

- Adjustable Delay-On-Make timer for staggered starting.
- Adjustable Delay-On-Break for Antishort Cycle prevention.
- Adjustable Universal Voltage from 190VAC to 480VAC.
- Adjustable Voltage Unbalance from 2-8% of the line voltage.

Mode of Operation

Designed in a small, easy-to-mount, surface mount or Din-Rail style case, the ICM409 continuously monitors the incoming line voltage for errors. When the line voltage is appropriate, the ICM409 closes a set of N.O. contacts and lights a green led. When the incoming voltage is outside the user' set parameters, the N.O. contacts open up and the red light will flash a code for the particular fault present. The control will also interrogate the line voltage during the fault condition to avoid short cycling and nuisance trips due to noise.

LED Indicators

- Green Led + Load ON
- · Red Led
- Solid = Phase reversal
- 1 flash = DOM time
- 2 flash = Low voltage
- 3 flash = High voltage
- 4 flash = Unbalance voltage



Features and Applications

- · Low cost single phase motor protection
- Built in anti-short cycle protection
- Detects high/low voltage conditions
- · Helps prevent rapid system recycling
- LED indicators: green for normal conditions red for fault
- · Heavy duty SPDT, isolated relay output
- Interrogation delay prevents nuisance trips: 5 seconds
- 3.25" x 3" x 1.25"

Specifications

- Voltage: 95-270 VAC
- Output: relay, SPDT N.C./N.O.: 5 amps
- •Time delay Range: adj. 6-600 seconds

Replaces

- Diversified: CV-100-RS, CV-200-RS15, CV-200-RS20
- Watsco: EAC-401, EAC-402, EAC-403, EAC-404



Defrost Controls - OEM and Replacement Parts



CNT02896 ICM300C

Features and Applications

- Direct replacement for OEMType 621
- · Low cost, time and temperature defrost
- HOLD input tracks compressor run times
- •Time and temperature terminate
- 10-minute fixed defrost time
- Pin-selectable intervals: 30/60/90 minutes
- •Test pins reduce test time by 256x
- Stable pin post construction

Specifications

- 18-30 VAC
- 50/60 Hz
- · Relay output
- Form: SPST
- N.O.: 1 amp
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/60/90 minutes

Replaces

- Amana: C64301-1, C6431001
- Artesian: 10321-00
- Arcoaire: 32312-00
- Carrier: 621
- Coleman: 3030A374
- Goodman: B12260-06
- Heil Quaker: HQ1052757
- ICP: 1052757
- ICM: DFOS24A2
- Intertherm: 6208800
- Lennox: 33G9501
- Rheem: 47-21776-01
- Snyder Gen.: 1395-329
- Honeywell: ST74A1004, 1020, 1038
- White Rodgers: 90-621Therm-o-Disc: 26E-10
- Robertshaw: TD-10





Features and Applications

- Direct replacement for York 03101251000
- •Time and temperature terminate
- Integral short cycle protection
- Pin-selectable intervals: 30/60/90 minutes
- · High/low pressure switch monitoring
- High power, condenser relay output
- Strip heat, reversing valve outputs

Specifications

- 18-30 VAC
- Relay output: 1 hp fan @ 240 VAC
- Strip heat, reversing valve outputs: 24 VAC, 2 amps
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/60/90 minutes

Replaces

• York: 9218-3741, 03101251000

Evcon: 9218-374ICM: DFORF



CNT03510 ICM304

Features and Applications

- Direct replacement for ICP 1069364
- Sensor input for defrost terminate
- •Time and temperature terminate
- 10-minute fixed defrost time
- Pin-selectable intervals: 30/60/90 minutes
- HOLD input tracks compressor run times
- Integral short cycle protection

Specifications

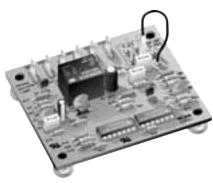
- 18-30 VAC
- Strip heat, reversing valve outputs: 24 VAC, 1 amp
- Defrost: 10-minute fixed
- Interval times: pin-selectable 30/60/90 minutes

Replaces

• ICP: 1069364



Defrost Controls - OEM and Replacement Parts



CNT03721 ICM307C

Features and Applications

- 3-minute anti-short cycle protection
- Low cost, time/temperature defrost
- •Time and temperature terminate
- 10-minute fixed defrost time
- HOLD input tracks compressor run times
- Pin-selectable intervals: 30/60/90 minutes
- Test pins reduce test time by 256x
- Integral short cycle protection: 3 minutes

Specifications

- 18-30 VAC
- 50/60 Hz
- Relay output
- Form: SPST N.O.: 1 amp
- Defrost time: 10 min fixed
- Interval times: pin-selectable 30/60/90 minutes

• Ranco: DT-2 • Fast: 1093410

Replaces • Lennox: 86G16



CNT02897 **ICM315C**

Features and Applications

- Solid state replacement for Ranco E-15
- Reliable thermistor-type sensor is less susceptible to breakage, easier to
- Replaces faulty bulb-type sensors
- 10-minute fixed defrost time
- Pin-selectable interval times (30/45/90)
- •Test pins reduce test time by 256x
- Stable pin post construction
- •Time and temperature terminate

Specifications

- 24, 120, 240 VAC
- · Form: SPST N.O.: 20 amps N.C.: 10 amps
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/45/90 minutes

Replaces

- Ranco: E-15
- Avion: DFT100



CNT03264 ICM316C

Features and Applications

- Direct replacement for Trane 21C142827G01
- Low cost time/temperature defrost
- Time and temperature terminate
- Pin-selectable intervals: 50/70/90 minutes
- •Test pins reduce test time by 256x
- High power output (1/2 horsepower fan @ 240 VAC)
- · Strip heat, reversing valve outputs (24 VAC, 1 amp)

Specifications

- 18-30 VAC
- Relay output: 1/2 hp fan @ 240 VAC
- · Strip heat, reversing valve outputs: 24 VAC, 1 amp
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 50/70/90 minutes





CNT02901 ICM318C

Features and Applications

- Direct replacement for Goodman B1226008
- Low cost, time/temperature defrost
- •Time and temperature terminate
- Pin-selectable intervals: 30/60/80 minutes
- •Test pins reduce test time by 256x
- HOLD input tracks compressor run times
- High power output (1/2 horsepower fan @ 240 VAC)
- Strip heat, reversing valve outputs (24 VAC, 1 amp)

Specifications

- 18-30 VAC
- Outdoor fan relay output: 1/2 hp fan @ 240 VAC
- Strip heat, reversing valve outputs: 24 VAC, 1 amp
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/60/80 minutes

Replaces

• Goodman: B1226008 • ICM: W1001-4



CNT02902 ICM319C

Features and Applications

- Direct replacement for Nordyne: 624519A
- Low cost, time/temperature defrost
- •Time and temperature terminate
- 10-minute fixed defrost time
- Pin-selectable intervals: 30/60/90 minutes
- •Test pins reduce test time by 256x
- Recycle function melts frost on coils
- Integral short cycle protection: 5 minutes

Specifications

- 18-30 VAC
- Outdoor fan relay output: 1/2 hp fan @ 240 VAC
- Strip heat, reversing valve outputs: 24 VAC, 1 amp
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/60/90 minutes

Replaces

- Nordyne 624519A
- ICM: DFORB24A2I300



Defrost Controls - OEM and Replacement Parts



CNT02898 ICM320C

Features and Applications

- Direct replacement for Carrier HK32FA006
- Low cost, time/temperature defrost
- •Time and temperature terminate
- 10-minute fixed defrost time
- Pin-selectable intervals: 30/50/90 minutes
- •Test pins reduce test time by 256x
- Stable pin post construction

Specifications

- 18-30 VAC
- Outdoor fan relay output: 10 amps @ 240 VAC
- Form: SPST N.O.: 2 amps
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/50/90 minutes

Replaces

Carrier HK32FA006



Features and Applications

- Low cost, time/temperature defrost
- •Time and temperature terminate
- · 10-minute fixed defrost time
- Pin-selectable intervals: 30/50/90 minutes
- •Test pins reduce test time by 256x
- High power output, outdoor fan (1/2 horsepower fan @ 240 VAC)
- Strip heat, reversing valve outputs (24 VAC, 1 amp)
- Integral short cycle protection: 5 minutes

Specifications

- 18-30 VAC
- Outdoor fan relay output: N.O.: 20 amps
- N.C.: 10 amps
- Form: SPDT
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/50/90 minutes

Replaces

 Carrier CES01130063-00, CES01130063-01



CNT02904 ICM322C

Features and Applications

- Low cost, time/temperature defrost
- •Time and temperature terminate
- · 10-minute fixed defrost time
- Pin-selectable intervals: 30/50/90 minutes
- •Test pins reduce test time by 256x
- High power output, outdoor fan (1/2 horsepower fan @ 240 VAC)
- Strip heat, reversing valve outputs (24 VAC, 1 amp)

Specifications

- 18-30 VAC
- Relay output
- Form: SPDT N.O.: 20 amps N.C.: 10 amps
- Defrost time: 10-minute fixed
- Interval times: pin-selectable 30/50/90 minutes

Replaces

• Carrier CES0130024-00



Delay on Make Timers

Delay On Make Timers - Ideal for Compressor Staging

Applications

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

Mode of Operation

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



ICM102B

Features and Applications

- 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
- Compact 2" x 2" package

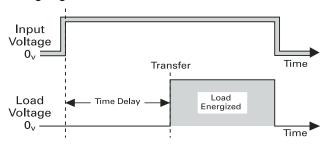
Specifications

- 18-240 VAC
- 1.5 amps
- 15 amp inrush
- 40 mA holding current
- Adjustable delay: .03-10-minutes (1.8-600 seconds)
- Voltage drop: 2.5 V @ 1.5 amps

Replaces

- Diversified: AC-800, ASC-600/601
- Gemline: 1C310/1C213 · Mars: 32391/32367
- Robertshaw: 3310-068 • Supco: TD-68, TD-69
- Watsco: EAC-701-adj., -X, EAC-700-A

Timing Diagram





Features and Applications

- Highly precise digital timing
- Switch-settable time delays
- Ideal for ice machine applications
- Universal voltage operation
- · Repeat accuracy .5% over voltage and temperature range
- Compact 2" x 2" package

Specifications

- 18-240 VAC
- 1 amp
- 10 amp inrush
- 40 mA holding current
- · Switch-settable delays range from 1-1,023 seconds
- Voltage drop: 2.5 V @ 1 amp

Replaces

- Gemline:1C213
- · Mars: 32394/32396
- Robertshaw: 3310-068
- Supco: TMF-19, TMF-80
- Watsco: 7061



ICM104B

- **Features and Applications** Highly precise digital circuitry
- High power, SPDT relay output
- Input to output isolation
- Works with anticipator-type thermostats
- .5% repeat accuracy over voltage and temperature range
- Rugged, compact package
- 115 and 240 VAC models available
- 2" x 3" package

Specifications

- 18-30 VAC
- Output:

N.O.: 20 amps @ 240 VAC N.C.: 10 amps @ 240 VAC SPDT, 1 form c

Knob-adjustable time delay: 10-1,000 seconds 40 mA holding current

Replaces

Mars: 32394/32398



Delay on BreakTimers

Delay On Break Timers - Anti-Short Cycle Protection

Applications

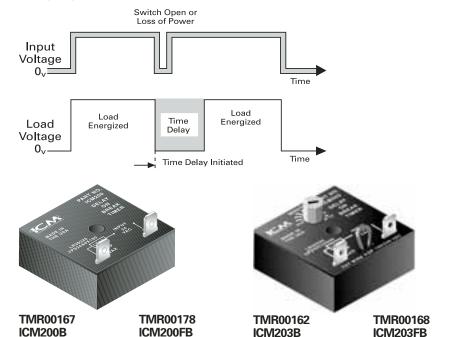
- "Anti-short cycle"
- "ON delay on break"

Helps to protect air conditioning, refrigeration and heat pump equipment from damage which may be caused by the rapid short cycling of compressors.

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.

Timing Diagram



Features and Applications

- Higher 1.5 amp power rating
- · Compressor lockout/anti-short cycle timer

TMR00161

ICM201FB

- · Helps to protect compressors from damage caused by rapid short cycling
- · Simple, 2-wire hookup
- Compact 2" x 2" package ICM200, 200F: 3-minute delay
- ICM201, 201F: 5-minute delay
- "F" suffix denotes 6" wire leads

Specifications

• 18-30 VAC

TMR00160

ICM201B

- 1.5 amps
- 15 amp inrush
- 3 or 5-minute fixed time delays
- Voltage drop: 3.5 V typical 4.5 V maximum @ 1.5 amps
- 40 mA holding current minimum

Replaces

- Diversified: ASC-500, 501, ASC-502, ASC-505-5
- · Gemline:IC321, IC322
- Watsco: EAC-500, EAC-501-180-W, EAC-501-300-W

Features and Applications

- 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
- Compact 2" x 2" package
- "F" suffix denotes 6" wire leads

Specifications

- 18-240 VAC
- 1.5 amps
- 15 amp inrush
- Knob-adjustable delays .03-10 minutes (1.8-600 seconds)
- Voltage drop: 3.5 V typical 4.5 V maximum @ 1.5 amps
- 40 mA holding current minimum

Replaces

- Diversified: ASC-500, 501, ASC-502, 503, ASC-505-5
- · Gemline: 1C320
- Mars: 32392
- Robertshaw: 3310-072
- Supco: TD-73
- Watsco: EAC-501-ADJ., EAC-501-ADJ-X



Delay on Break Timers



TMR00170 ICM206B TMR00163 ICM205B



Features and Applications

- Brownout protection
- UL 873 recognition as compressor controller
- Helps prevent scroll compressor reversal
- Fast response time: 16 ms
- Compressor lockout/anti-short cycle timer
- Prevents low voltage starts
- Eliminates relay chatter due to thermostat bounce or tampering
- Works with anticipator-type thermostats
- Patented: U.S. Patent No. 4,991,049
- Compact 2" x 2" package
- ICM204B: 3-minute delay
- ICM205B: 5-minute delay
- ICM206B: 3-10 minute delay

Specifications

- 18-30 VAC
- 1.5 amps
- 15 amp inrush
- 3 or 5 minute fixed or 10 minute adjustable time delays
- 40 mA holding current minimum

Replaces

- · Gemline: 1C243
- Mars: 32381/32382
- Supco: TL243, TL245
- Robertshaw: 3310-183, 3310-305
- Watsco: EAC-511, EAC-426-180, EAC-426-300, EAC-426-ADJ

Features and Applications

- Universal voltage operation
- 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
- · Compact, epoxy-encapsulated package
- ICM208B: 5-minute delay

Specifications

- 18-240 VAC
- 1 amp
- 10 amp inrush
- 5-minute fixed time delays
- 40 mA holding current minimum



Bypass Timer and Fan Blower Control

Bypass Timer - To Bypass a Switch or Device During Startup

Applications

"ON delay interval timer"

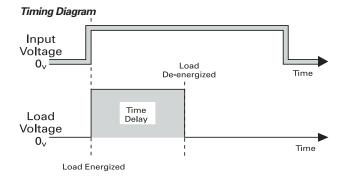
"Normally closed delay on make"

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.

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.





Features and Applications

- 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 delays
- Epoxy-encapsulated circuitry
- Compact 2" x 2" package

Specifications

- 18-240 VAC
- 50/60 Hz
- 1 amp maximum
- 40 mA minimum
- 10 amp inrush
- Knob-adjustable time delay: 10-1,000 seconds

Replaces

- Mars: 32395
- Supco: TDP68



Bypass Timer and Fan Blower Control

Fan Blower Control - OFF Delay Timing Purges Residual Air

Applications

"OFF delay on break"

Controls the circulating fan in heat pump, air conditioning and forced air systems. OFF delay timing function continues to run the fan at the end of the heating/cooling cycle, thereby purging ducts of residual air and increasing system efficiency.

Mode of Operation

Power must be applied before and during the time delay period. When the initiate contact closes, the load energizes and remains energized as long as the initiate contact is closed. The time delay begins when the initiate contact opens. At the end of the time delay period, the load is turned off. If the initiate contact recloses during the time delay period the load remains energized and the time delay is reset to zero. Removal of input power during the delay turns off the load and resets the time delay to zero. A 1second interrogation delay is provided to avoid nuisance trips due to thermostat bounce or tampering.

Timing Diagram Input Voltage $\mathbf{0}_{\mathsf{v}}$ Time Initiate Switch Initiate Switch Open Closed Time Delay Load Voltage 0_{v} Load Energized Delay on 1-Second Interrogation Break Period Delay on Make



TMR00172 ICM253B

Features and Applications

- UL 873 recognition for compressor applications
- Post-purge fan delay timer
- OFF delay purges ducts of residual air at the end of the heating/cooling cycle
- Interrogation delay eliminates nuisance trips due to thermostat bounce/ tampering

Specifications

- 18-30 VAC
- 1 amp maximum
- 40 mA minimum
- 10 amp inrush
- · Adjustable time delay: 12-390 seconds

Replaces

- Mars: 32393
- Gemline: IC216



Fan Blower Controls - Dual ON/OFF Delays Control Fan

Applications

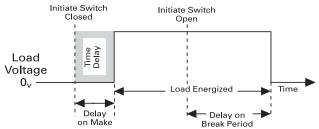
"ON delay on break" and "OFF delay on break"

Controls the circulating fan in heat pump, air conditioning and forced air systems. ON delay on make lets air reach proper level prior to turning on the fan. OFF delay timing function continues to run the fan at the end of the heating/cooling cycle, thereby purging ducts of residual air and increasing system efficiency.

Mode of Operation

Power must be applied before and during the time delay period. When the initiate contact closes, the delay on make period begins. The load then energizes and remains energized as long as the initiate contact is closed. The delay on break period begins when the initiate contact opens. At the end of the time delay, the load is turned off. If the initiate contact recloses during the time delay, the load remains energized and the time delay is reset to zero. Removal of input power during the delay turns off the load and resets the time delay to zero.

Input Voltage 0, Initiate Switch Closed Initiate Switch Open





TMR00171 ICM251B

Features and Applications

- · Drives fan directly
- · High power, relay output
- Dual function fan delay timer
- Controls the circulating fan in heat pump, A/C and forced air systems
- OFF delay controls fan relay to purge ducts of residual air at the end of the heating/cooling cycle
- ON delay allows air to reach the proper comfort level prior to energizing the fan
- 115 and 230 VAC are also available, please consult factory

Specifications

- 18-30 VAC
- Output: N.O.: 20 amps @ 240 VAC N.C.: 10 amps @ 240 VAC
- Time delays adjustable: ON: 1-180 seconds OFF: 12-390 seconds

Replaces

• Mars: 32377, 32378, 32379





TMR00164 ICM254B

Features and Applications

- · Dual function fan delay timer
- Controls the circulating fan in heat pump, A/C and forced air systems
- OFF delay controls fan relay to purge ducts of residual air at the end of the heating/cooling cycle
- ON delay allows air to reach the proper comfort level prior to energizing the fan

Specifications

- 18-30 VAC
- 1 amp maximum
- 40 mA minimum
- 10 amp inrush
- •Time delays adjustable: ON: 1-180 seconds OFF: 12-390 seconds

Replaces

Honeywell: S876A1016Watsco: PSTD-000-060W, PSTD-000-005W



TMR00165 ICM255C

Features and Applications

- · Low cost open board design
- · High power, relay output
- Dual function fan delay timer
- Controls the circulating fan in heat pump, A/C and forced air systems
- OFF delay purges ducts of residual air
- ON delay allows air to reach the proper comfort level prior to energizing the fan

Specifications

- •18-30 VAC
- N.O.: 20 amps @ 240 VAC
 N.C.: 20 amps @ 240 VAC
- •Time delays fixed: ON: 1 second OFF: 60 seconds

Replaces

- Bard: 8201-056
- Mars: 32393
- Snyder-General: 1395336
- Watsco: 5893
- Rheem: 42-22515-01, 42-22515-02, 42-22515-03



Fan Blower Controls - Direct OEM Replacement Parts



CNT03261 ICM270C

Features and Applications

- Dual function fan delay timer
- Controls the circulating fan in heat pump, A/C and forced air systems
- OFF delay purges ducts of residual air
- ON delay allows air to reach the proper comfort level prior to energizing the fan

Specifications

- 18-30 VAC
- Contact ratings: Heat/Cool Speed N.O.: 20 amps @ 240 VAC N.C.: 10 amps @ 240 VAC
- •Time delays blower off time adjustable: 90, 120, 150, 180 seconds

Replaces

- Robertshaw: 695-003
- Evcon: 2702-300
- Rheem: 47-22827-01, 47-22827-81, 47-22827-82, 47-22828-01, 47-22828-02
- Honeywell: ST9120A1006, ST9120A12004



CNT03262 ICM271C

Features and Applications

- Reliable solid state fan blower control
- Specifically designed to replace popular gas furnace centers
- Pin selectable blower delays
- · High power, relay output
- · Dual function fan delay timer
- Controls the circulating fan in heat pump, A/C and forced air systems
- OFF delay purges ducts of residual air
- ON delay allows air to reach the proper comfort level prior to energizing the fan

Specifications

- 18-30 VAC
- Contact ratings:
 N.O.: 20 amps
- N.C.: 10 amps
 Fixed time delays

Replaces

• Robertshaw: 695-100





Features and Applications

- Cooling control module with fan delay
- Integral low voltage terminal board with field thermostat wiring
- · Electronic air cleaner output
- · High power, relay output
- DC output for fan relays and 1st stage of electric heater control
- Interlock circuitry prevents 2nd and 3rd stage electric heat energization without proper fan operation

Specifications

- 18-30 VAC
- Contact ratings:
 - N.O.: 20 amps
- N.C.: 10 amps
- •Time delay: factory fixed at 60 seconds

Replaces

Texas Instruments: 2FD-1



CNT03263 ICM275C

Features and Applications

- Microprocessor-based fan blower control
- · Built in humidity relay
- Manually adjustable post-purge off delay from 60-240 seconds
- Electronic air cleaner output

Specifications

- 18-30 VAC
- Contact ratings:
 20 amps @ 240 VAC on high
 10 amps @ 240 VAC on low

Replaces

• Robertshaw: 695-101



Head Pressure Controls - Low Ambient Fan Control



CNT02905 ICM325HC



CNT03679 ICM325K2 Canada Only



CNT02906 ICM326HC CNT02907 ICM327HC

Features and Applications

- Integral heat pump bypass circuitry allows electronic bypass of speed control
- Eliminates overshoots common to on/ off and pressure switch controls
- Helps prevent evaporator freeze-ups, low pressure cut-outs and liquidslugged compressors in low ambient conditions
- One model covers 120-480 VAC
- Features: hard start, low temperature bypass, isolated 24 VAC supply
- Controls up to 3 refrigerant circuits
- Typical application: A/C & heat pumps
- 4.5" x 3" x 1.75"

Specifications

- Input
 - Control:18-30 VAC, 50/60 Hz 1.8 VA maximum
- -Line Input: 120-480 VAC
- Output
- -Maximum: 10 amps -Minimum: 100 mA

Replaces

- Hoffman: 800/800A/800AA/814-50, 816-10
- Ranco: E31Series
- Johnson Controls: P66
- ACT: FM2000

Features and Applications

- One model covers 120 to 600 VAC
- Features: hard start, low temperature bypass, isolated 24 VAC supply
- Eliminates overshoots common to on/ off and pressure switch controls
- · Controls one refrigerant circuit
- •Typical application: refrigeration and
- ICM325K2: with ICM376 probe, 70-100
- 4.5" x 3" x 1.75"

Specifications

- İnput
 - -Control:18-30 VAC
 - -Line Input: 120-600 VAC
- Frequency: 50/60 Hz
- Output
 - -Maximum: 10 amps -Minimum: 100 mA

Features and Applications

- Built in transformer eliminates cost, reduces installation time and simplifies wiring
- Helps prevent evaporator freeze-ups, low pressure cut-outs and liquidslugged compressors in low ambient conditions
- Features: hard start, low temperature cutoff, high temperature bypass
- Ideal for line voltage air conditioning and refrigeration
- 4.5" x 3" x 2"

Specifications

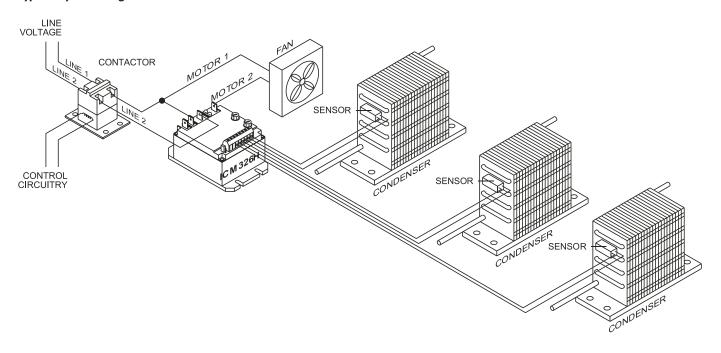
- ICM326H: 120 or 208/240 VAC
- ICM327H: 480 VAC
- Frequency: 50/60 Hz
- Output
 - -Maximum: 10 amps -Minimum: 100 mA

Replaces

- Hoffman: 800/800A/800AA/814-50, 816-10
- Ranco: E31Series
- Johnson Controls: P66



Typical System Diagram for ICM326H Head Pressure Control





3-Phase Head Pressure Controls - With LCD Diagnostics



CNT03525 ICM336 CNT03524 ICM337

Features and Applications

- •Temperature, pressure, milliamp or DC voltage input
- •True sine wave output
- Modulates voltage and frequency
- LCD display for easy setup and monitoring
- No need to change existing fan motor
- 8.25" x 12.5" x 14"

Specifications

ICM336: 208-240 VAC

1-3 HP

ICM337: 460 VAC

1-5 HP

Replaces

- Motor Master III
- Hoffmann



Head Pressure Control Accessories



CBT00804 ACC-OE-01

Outdoor Enclosure

Features and Applications

- Rugged steel construction
- Easy to mount
- Helps to protect controls from harsh environmental conditions such as temperature, shock, humidity and vibration
- Ideal for use with ICM head pressure controls
- 4.25" x 6.25" x 6.25"



TDR00312 ICM380

Features and Applications

 Optional pressure transducer for ICM336/ICM337 3-phase head pressure controls



SEN00864 ICM379

Features and Applications

 Probe for use with ICM325H, ICM326H and ICM327H head pressure controls with optional heat pump bypass feature



Lead-Lag Controls

Lead-Lag Controls - Reliable Long Life Switching



Features and Applications

- •True dual stage control
- Built in thermostat
- adjustable set point
- adjustable deadband
- adjustable sequencer
- Regulates 1 or 2 heating/cooling systems
- Compact housing
- · Safety system halon contacts
- Memory on power loss
- Accelerated test mode
- Isolated inputs
- · Isolated solid state outputs
- · Built in anti-short cycle delays
- Status LEDs
- Advance state switch
- Ideal for refrigeration applications, communication substations, water treatment plants anywhere redundant systems are used
- 4.25" x 8.5" x 2"

Specifications

- 18-30 VAC
- 2 amps maximum
- Frequency: 50/60 Hz
- Power consumption: 2 watts maximum/lockout
- Adjustable thermostat features:
 - -Set point: 55-90°
 - -Deadband: 2-20°
 - -Sequencer: 1-28 days



Multi-Mode Timer

Multi-Mode Digital Timer - Versatile, Simple, Accurate



TMR00187 ACS-8

Features and Applications

- Relay socket
- 8-pin octal plug-in base
- Locating key ensures proper orientation For use with ICM408, ICM410-427, ICM500-505

Specifications

•10 amps up to 480 VAC

Replaces

• Diversified: RB-08



RapidStart® Motor Starters - Current Sensing

By monitoring the compressor current upon start-up, RapidStart® is able to engage the hard start capacitor for precisely the correct amount of time, ensuring maximum starting torque without the risk of supplying too much current into the start winding. A timed safety circuit is provided in the event the motor fails to start within 2 seconds. Current sensing hard start precisely increases starting torque.



KIT07685 ICM803

Features and Applications

- Operates from 95-288 VAC
- Patented current sensing circuitry
- · Easy to install, 2 wires
- OEM approved
- Solid-state circuitry
- · Boosts starting torque
- · Disengages upon start
- Recycles instantly (less than 1 second)
- Fuse protection
- Not effected by voltage or current fluctuations
- Not effected by ambient temperatures

Specifications

- Voltage: 95-288 VAC
- Max Input Voltage: 502 VAC
- Oper.Temp. Range: -40°C to +65°C
- 88-106 Mfd. 330 V capacitor
- For 1/2 to 3 HP applications

Replaces

- Supco: SPP-8
- Kickstart: TO5, TO-5



KIT07686 ICM805

Features and Applications

- Operates from 95-288 VAC
- Patented current sensing circuitry
- · Easy to install, 2 wires
- OEM approved
- Solid-state circuitry
- Boosts starting torque
- Disengages upon start
- Recycles instantly (less than 1 second)
- Fuse protection
- Not effected by voltage or current fluctuations
- · Not effected by ambient temperatures

Specifications

- Voltage: 95-288 VAC
- Max Input Voltage: 502 VAC
- Oper. Temp. Range: -40°C to +65°C
- 145-175 Mfd. 330 V capacitor
- For 2 to 5 HP applications

Replaces

Kickstart: KS1



KIT07687 **ICM810**

Features and Applications

- Operates from 95-288 VAC
- · Patented current sensing circuitry
- · Easy to install, 2 wires
- OEM approved
- Solid-state circuitry
- · Boosts starting torque
- Disengages upon start
- Recycles instantly (less than 1 second)
- Fuse protection
- Not effected by voltage or current fluctuations
- · Not effected by ambient temperatures

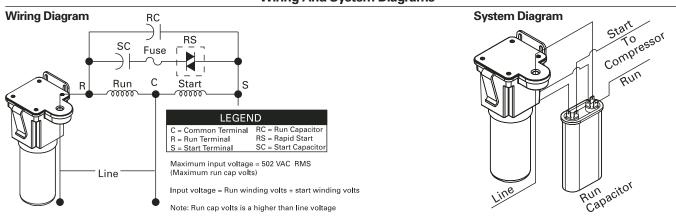
Specifications

- Voltage: 95-288 VAC
- Max Input Voltage: 502 VAC
- Oper. Temp. Range: -40°C to +65°C
- 243-292 Mfd. 330 V capacitor
- For 3 ½ to 10 HP applications

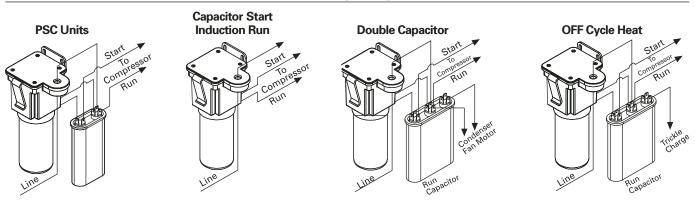


RapidStart® Series 803/805/810 - The Current Advantage

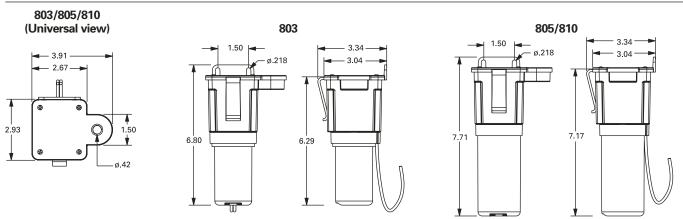
Wiring And System Diagrams



Alternate Wiring Configurations



Dimensions





RapidStart® Motor Starters - Voltage Sensing

ICM's differential voltage sensing products employ patented circuitry which monitors differential compressor auxiliary voltage, determines the state of the motor and precisely engages and disengages the start capacitor.

A timed safety circuit is provided in the event the motor fails to start within 2 seconds.



KIT07688 ICM850

Features and Applications

- Increases starting torque up to 500%
- Ensures precise starts
- Reduces inventory
- Not affected by ambient temperature
- Recycles instantly (less than one second)
- Dual voltage operation: either 115 or 240 VAC motors
- Fuse protection
- Not effected by voltage or current fluctuations

Specifications

- Voltage: 90-277 VAC
- Max Input Voltage: 390 VAC
- Oper. Temp. Range: -40°C to +65°C 43-52 Mfd. 330 V capacitor
- For up to 11/2 HP applications

Replaces

- Supco: SPP-5
- Mars: 32701
- A-1: WXS-5



KIT07689 ICM860

Features and Applications

- Increases starting torque up to 500%
- Ensures precise starts
- Reduces inventory
- · Not affected by ambient temperature
- Recycles instantly (less than one second)
- Dual voltage operation: either 115 or 240 VAC motors
- Fuse protection
- Not effected by voltage or current fluctuations

Specifications

- Voltage: 90-277 VAC
- Max Input Voltage: 390 VAC
- Oper. Temp. Range: -40°C to +65°C 88-106 Mfd. 330 V capacitor
- For 2 to 5 HP applications

Replaces

- Supco: SPP-6
- Mars: 32702
- A-1: WXS-6

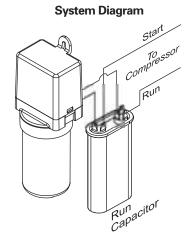


RapidStart® Series 850/860 - The Differential Potential

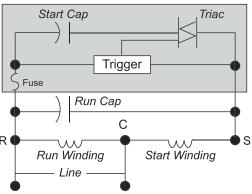
Applications

Water coolers Vending Machines Household refrigerators (115 or 230 VAC) Commercial refrigeration (115 or 230 VAC) Air conditioners and heat pumps

Dimension, System, and Wiring Diagrams



Wiring Diagram



Maximum input voltage = 390 VAC RMS (Maximum run cap volts)

Input voltage = Run winding volts + start winding volts

Note: Run cap volts is higher than line voltage

RapidStart® Comparison

Differential Current Relay	Soft Start			
Conventional ROBERTSHAW 600-052 and 600-057 ICM	ng			
MARS 32701 and 32702 Conventional ROBERTSHAW 600-052 and 600-057 SUPCO SP ROBERTSHAW 600-052 and 600-057 SUPCO SP SUPCO S	es			
Conventional 3-Wire Relay SUPCO SPP5, SPP6, and SPP7 SUPCO SP SP6 Adjusting Ves No				
ICM RAPIDSTART® SUPCO SPTS, SPP6, and SPP7 Capacitor Kit SUPCO SPTS, SPP6, and SPP7 WATSCO WSX-5 and WSX-6 WATSCO WSX-5 NO NO				
RAPIDSTART® KICKSTART Capacitor Kit WATSCO WSX-5 and WSX-6 WATSCO WS Self Adjusting Yes No No No No No Uses Current Differential Technology Yes No No No No Uses Potential Motor Start Relay No Yes Yes No No Two Wires, Non-Polarized Yes Yes No Yes Yes Recycles Instantly Yes Yes Yes No No Senses Whether Motor Started or Not Yes Yes Yes No No				
Self Adjusting Yes No	SPP8			
Uses Current Differential Technology Yes No	WSX-1			
Uses Potential Motor Start Relay No Yes Yes No No Two Wires, Non-Polarized Yes Yes No Yes Yes Recycles Instantly Yes Yes Yes No No Senses Whether Motor Started or Not Yes Yes Yes No No				
Two Wires, Non-Polarized Yes Yes Yes Yes Yes Yes Yes Yes No No No Recycles Instantly Yes Yes Yes No No No Senses Whether Motor Started or Not Yes Yes Yes No No				
Recycles Instantly Yes Yes Yes No No Senses Whether Motor Started or Not Yes Yes Yes No No				
Senses Whether Motor Started or Not Yes Yes Yes No No	;			
Replaces 3-Wire Relay and Capacitor Kit Yes Yes N/A No No				
UL Recognized #E11867 Yes Yes No No No No				
Approved by Compressor Manufacturers Yes Yes Yes No No				
Approved by Equipment Manufacturers Yes Yes Yes No No				
Used by OEM Manufacturers Yes No No No No No				
Safety Cut-off Yes No No No No No				
True Power Factor Starting Not Required Yes Yes Yes Yes Yes	;			
Factory Calibration No Yes Yes Yes Yes Yes	;			
Voltage Sensitive No No No Yes No				
PTCR Device No No No No Yes	;			
Timing Circuit Device No No No Yes Yes	;			
Affected by Ambient Temperature No No No Yes Yes	;			



Thermostat

			Programmable		
ServiceFirst Item No.	THT02403	THT02404	THT02405	THT02406	THT02407
Mfg. No.	SC3000	SC3001	SC3006	SC3201	SC3801
Features					
Single Stage	✓	✓	✓		✓
2 Stage				✓	✓
Heat Pump	✓	✓	✓	✓	✓
Heat	✓	✓	✓	✓	✓
Cool	✓	✓	✓	✓	✓
Status LEDs			✓	√	✓
Backlit		√	✓	√	✓
Auto Changeover		✓		✓	
7-Day Programmable	✓	✓	✓	✓	✓
Programmable Fan					✓
Non- Programmable	√	✓	✓	✓	✓
Battery	✓				
Hardwired		✓	✓	✓	✓
Millivolt Compatible	✓				
4 or 5 Wire					
Compatible	\checkmark	✓	\checkmark		\checkmark
Freeze Protection	✓				
Keypad Lockout			✓		✓

·		·			Non-Program	mable	·	·			
ServiceFirst Item No.	THT02394	THT02412	THT02395	THT02413	THT02396	THT02397	THT02398	THT02399	THT02400	THT02401	THT02402
Mfg. No.	SC1600	SC1601	SC1800	SC1801	SC1900	SC1901	SC2000	SC2001	SC2200	SC2201	SC2300
Features											
Single Stage	✓	✓	✓	√	√	√	√	✓			
2 Stage									√	✓	✓
Heat Pump							✓	✓	✓	✓	
Heat	✓	✓	✓	√			√	✓	√	√	✓
Cool					✓	√	√	✓	√	√	✓
Status LEDs									√	√	✓
Non-											
Programmable	\checkmark	\checkmark	\checkmark	✓	\checkmark	✓	\checkmark	\checkmark	✓	\checkmark	\checkmark
Battery	✓		✓		✓		√		√		✓
Hardwired		✓		√		√		✓		✓	
Millivolt											
Compatible	\checkmark		\checkmark				\checkmark				
4 or 5 Wire											
Compatible							✓	✓			
Freeze	-		-	-	-	-			-	-	
Protection	\checkmark	\checkmark	\checkmark	\checkmark			\checkmark	\checkmark			



Programmable Thermostat

Series SC3000 Battery



THT02403 (SC3000)

7-Day Programmable, Single Stage Heat / Single Stage Cool or Single Stage Heat Pump, Manual Changeover Terminations: RC, RH, W, Y, O, B, G

Features

- Elegant Design
- 7-Day Programmable
- Large Backlit LCD Display*
- Precise Temperature Sensing
- Non-Volatile Program Memory
- Easy Access Terminal Block
- Zoning System Compatible
- Compatible with Standard 24-volt AC Heating/Cooling Systems
- Integral Four-Minute Anti-Short Cycle Protection
- •Temporary and Vacation Hold
- Mercury-free, Environmentally Safe
- * ICM Series SC3000 is not backlit

Simpleset[™] 7-Day Programming

- Simple programming with an ICM exclusive "step back" feature
- Simple and versatile programming options:
- -7-Day Programming Individually program each day or program one day and copy it for the entire week Battery

Specifications

- Electrical Rating: 24 VAC (18 to 30 VAC)
 1 amp maximum per terminal
 4 amp maximum total load
- •Temperature Control Range: 45°F to 90°F Accuracy: (± 1 °F)



Programmable Thermostat

Series SC3001 / SC3006 / SC3201 / SC3801

Hardwired



THT02404 (SC3001)7-Day Programmable, Single Stage Heat / Single Stage Cool or Single Stage Heat Pump, Manual Changeover

Terminations: RC, RH, C, W, Y, O, B, G



THT02406 (SC3201)
7-Day Programmable, 2 Stage Heat
Pump, Manual Changeover
Terminations: R, C, Y1, Y2, W2, O, B, G, E, L





SEN01226 (ACC-RT104)Optional for use with SC3801 for remote temperature sensor mounting Terminations: S1, S2



THT02405 (SC3006)7-Day Programmable, Single Stage Heat / Single Stage Cool or Single Stage Heat Pump, Auto Changeover Terminations: RC, RH, C, W, Y, O, B, G



THT02407 (SC3801)
7-Day Programmable, 2 Stage Heat / 2
Stage Cool or 2 Stage Heat Pump,
Auto Changeover
Terminations: R, C, W 1 /O/B, Y1 , W2, Y2,
G, S 1 , S2



Non-Programmable Thermostat

Series SC1600 / SC1800 / SC1900 / SC2000 / SC2200 / SC2300

Battery

Features

- Elegant Design
- Zoning System Compatible
- Adjustable Differential
- Large LCDTemperature Display
- Precise Temperature Sensing
- Easy Access Terminal Block
- Selectable Fahrenheit or Celsius
- Compatible with Standard 24-volt AC Heating/Cooling Systems
- Integral Five-Minute Anti-Short Cycle Protection
- Mercury-free, Environmentally Safe
- Manual Changeover

Specifications

- Electrical Rating: 24 VAC (18 to 30 VAC)
 1 amp maximum per terminal
 4 amp maximum total load
- •Temperature Control Range: 45°F to 90°F Accuracy: <± 1 °F)

Applications

- Residential New construction/ replacement
- Light Commercial



THT02394 (SC1600)Heat Only, Single Stage Heat No Fan
Terminations: R, W



THT02395 (SC1800) Heat Only, Single Stage Heat Terminations: R, W, G



THT02396 (SC1900) Cool Only, Single Stage Cool Terminations: R, Y, G



THT02398 (SC2000)
Single Stage Heat / Single Stage Cool or Single Stage Heat Pump
Terminations: RC, RH, W, Y, O, B, G



THT02400 (SC2200) 2 Stage Heat Pump Terminations: R, C, Y1, Y2, W2, O, B, G, E, L



THT02402 (SC2300) 2 Stage Heat / 2 Stage Cool Terminations: RC, RH, C, W1, W2, Y1, Y2, G



Non-Programmable Thermostat

Series SC1601 / SC1801 / SC1901 / SC2001 / SC2201 / SC2211

Hardwired



THT02412 (SC1601) Heat Only, Single Stage Heat No Fan Terminations: R, C, W



THT02397 (SC1901)Cool Only, Single Stage Cool Terminations: R, C, Y, G



THT02401 (SC2201) 2 Stage Heat Pump Terminations: R, C, Y1, Y2, W2, O, B, G, E, L



THT02413 (SC1801) Heat Only, Single Stage Heat Terminations: R, C, W, G



THT02399 (SC2001)
Single Stage Heat / Single Stage Cool or
Single Stage Heat Pump
Terminations: R, C, W, Y, O, B, G



New Construction

Series SC055 to SC075 Series SC605 to SC075S

Applications

The SC055 to SC075S series thermostats are low cost, single set point thermostats intended for use as temporary devices to provide heating or cooling to allow drywall to dry during construction. Also can be used for low ambient cutoff switch.

Specifications

- Electrical Rating: 24 VAC (18 to 30 VAC) amp maximum
- •Temperature Control Range: 55°F to 75°F Accuracy: (± 5°F)



THT02385 (SC055) to THT02392 (SC075)

- Two-wire installation
- Five fixed set point models to choose from: 55°F to 75°F in five-degree increments



THT02387 (SC060S) to THT02393 (SC075S)

- Three-wire installation
- Switched fan, 3 modes
- Fan only
- Off
- Heat or Cool
- Four fixed set point models to choose from: 60°F to 75°F in five-degree increments

Hardwired

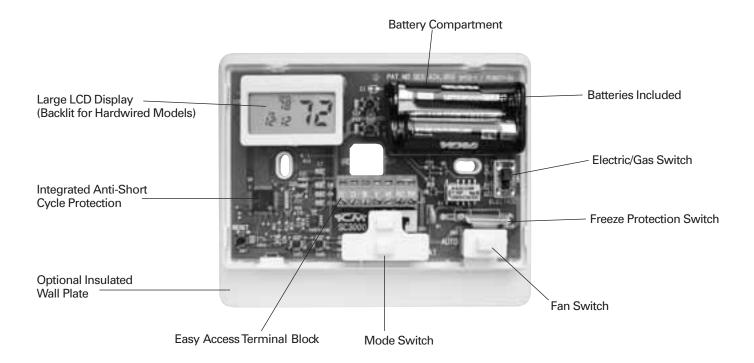
Dryout Thermostats



ServiceFirst Item No. Mfg. No.	THT02385 SC055	THT02386 SC060	THT02387 SC060S	THT02388 SC065	THT02389 SC065S	THT02390 SC070	THT02391 SC070S	THT02392 SC075	THT02393 SC075S
Temperature Range	55°F ±5°	60°F ±5°	60°F ±5°	65°F ±5°	70°F ±5°	70°F ±5°	70°F ±5°	75°F ±5°	75°F ±5°
2-Wire	✓	✓		✓		✓		✓	
3-Wire			✓		✓		✓		\checkmark
Heat		✓	✓	✓	✓	✓	✓		
Cool	✓							✓	\checkmark
Switched Fan			✓		✓		✓		✓



Diagrams





Accessories



Wallplates

PLT03837 (ACC-WP01) PLT03838 (ACC-WP02)

Need more wall coverage? Choose an ICM insulated wall plate.

The fast, easy solution for hiding wall problems.

- Rugged, flexible construction
- Foam gasket prevents drafts through wall opening
- Hidden mounting screws (included) for a sleek appearance

Choose from two convenient sizes:

- ACC-WPO1 427/32" x 515/16"
- ACC-WP02 519/32" x 71/2"



Remote Sensor for SC3801

SEN01226 (ACC-RT104)

Need to monitor the temperature away from the thermostat? Choose an ICM remote sensor.

The fast, easy solution for temperature sensing problems.

- For tamper-prone areas
- Poor air flow areas
- Troubled applications
- Foam gasket prevents drafts through wall opening

Mounts to standard 2" x 4" outlet box

• ACC-RT 104 - 23/4" x 41/2"



Literature Order Number	RSP-PRC024-EN
Filing Hierarchy	Service Products / Controls
Date	February 2004
Supersedes	RSP-D-107 0399
Stocking Location	Inland

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.