# ZR28K5E-TF5

HCFC, R-22, 60 Hz, 3 - Phase, 200/230 V , Also Available with Variable Frequency Drives

Air Conditioning

Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Summary

| Performance | | |
|---|---|---|
| **Evaporator Temp. (°F)** | 45 | 50 |
| **Condensing Temp. (°F)** | 130 | 100 |
| **Return Gas Temp. (°F)** | 65 | 70 |
| **Liquid Temp. (°F)** | 115 | 85 |
| **Capacity (BTU/hr)** | 28400 | 36900 |
| **Power (W):** | 2590 | 1755 |
| **Current (Amps):** | 8 | 6.25 |
| **EER(BTU/Wh):** | 11 | 21 |
| **Mass Flow (lbs/hr):** | 417 | 472 |
| **Sound Data @ 45 / 130** | | |
| **Sound Power (dBA):** | 68 Avg | 73 Max |
| **Vibration mils(peak-peak):** | 2.0 Avg | 3.0 Max |
| **Record Date:** | 2015-10-12 | |

| Mechanical | |
|---|---|
| **Displacement (in^3/Rev):** | 2.36 |
| **Displacement (ft^3/Hr):** | |
| **Overall Length (in):** | 9.50 |
| **Overall Width (in):** | 9.50 |
| **Overall Height (in):** | 15.86 |
| **Mounting Length (in):** | 7.50 |
| **Mounting Width (in):** | 7.50 |

| | |
|---|---|
| **Mounting Height (in):** | 16.08 |
| **Suction Size (in),Type:** | 3 / 4 Stub |
| **Discharge Size (in),Type:** | 1 / 2 Stub |
| **Initial Oil Charge (oz):** | 25 |
| **Oil Recharge (oz):** | 19 |
| **Net Weight (lbs):** | 49.6 |
| **Internal Free Volume (in^3):** | 118 |
| **Horse Power:** | 2.5 |

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

**Electrical**

| | |
|---|---|
| **LRA High* (Amps):** | 73.0 |
| **LRA Low*(Amps):** | |
| **LRA Half Winding (Amps):** | |
| **MCC (Amps):** | 15.5 |
| **Max Operating Current (Amps):** | 11.0 |
| **RLA, MCC/1.4(use for contactor selection)(Amps):** | 11.1 |
| **RLA, MCC/1.56(use for breaker & wire size selection)(Amps):** | 9.9 |
| **RPM:** | 3500 |
| **Box IP :** | 21 |
| **UL File No:** | SA-2337 |
| **UL File Date:** | |

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

**Capacitors**

| Type | Part No | Low MFD | High MFD | Volts | User Description |
|---|---|---|---|---|---|
| No data available in table | | | | | |

**Alternate Applications**

| Refrigerant | Voltage | Phase | Frequency | Application |
|---|---|---|---|---|
| R-22 HCFC | 200/220 | 3 | 50 | Air Conditioning |
| R-407C HFC | 200/220 | 3 | 50 | Air Conditioning |
| R-407C HFC | 200/230 | 3 | 60 | Air Conditioning |

## Service Parts

**Service Parts**

| Reference | Component | Quantity | Description | Comment |
|---|---|---|---|---|
| 1 | 918-0052-00 | 1 | CRANKCASE HEATER KIT | 240V 40W WRAP AROUND |
| 1 | 918-0052-01 | 1 | CRANKCASE HEATER KIT | 120V 40W WRAP AROUND |
| 2 | 527-0044-15 | 1 | SPACER - MOUNTING ASSM | |
| 14 | 529-0060-24 | 1 | POWER CABLE-MOLDED PLUG | |

## Accessories

**Accessories**

| Category | Part Number | Description |
|---|---|---|
| (1) Variable Frequency Drive | EVH-322012-R21BDN | EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1 |
| (1) Variable Frequency Drive | EVH-322012-R21BEN | EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1 |
| (1) Variable Frequency Drive | EVH-322012-R54BDN | EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1 |
| (1) Variable Frequency Drive | EVH-322012-R54BEN | EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1 |
| Crankcase Heaters | 018-0094-00 | Crankcase Heater, 240V, 40W |
| Crankcase Heaters | 018-0094-01 | Crankcase Heater, 120V, 40W |
| Crankcase Heaters | 018-0094-03 | Crankcase Heater, 480V, 40W, 21.25" Lead Length |
| Crankcase Heaters | 018-0094-04 | Crankcase Heater, 575V, 40W, 21.25" Lead Length |
| Crankcase Heaters | 018-0094-00 | Crankcase Heater, 240V, 40W |
| Crankcase Heaters | 018-0094-01 | Crankcase Heater, 120V, 40W |

## Electrical Components

**Electrical Components**

Part No: 071-0572-12

Usage Description: Internal Protector

Vendor Part Number

UP18NY032-550

Vendor Name

UBUKATA

## Nomenclature

ZR28K5E-TF5

**Family Series**

**Z:** Scroll

**Application Range**

**R:** A/C - R-22/407C/134a

**Capacity**

**28K:** Capacity Multiplier-1000

**Oil Type**

**E:** Polyol Ester

**Motor Type**

**T:** 3 Phase

**Motor Protection**

**F:** Internal Inherent Protection

**Voltage**

**5:** 60Hz (200/230-3) 50Hz (200/220-3)

## Miscellaneous

Alternate Application

| Refrigerant | Freq | Phase | Voltage | Application |
|---|---|---|---|---|
| HCFC R-22 | 50 | 3 Ø | 200/220 V | R1 AC |
| HFC R-407C | 50 | 3 Ø | 200/220 V | R1 AC |
| HFC R-407C | 60 | 3 Ø | 200/230 V | R1 AC |

Nomenclature

ZR28K5E-TF5

| Date | Data Group | Field | Old Data | New Data |
|---|---|---|---|---|
| 12-Oct-2015 | Rating | PubCode | | Y |