ZR57K3E-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 460 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 | 45 |
| Condensing Temp. (°F) | 130 | 100 |
| Return Gas Temp. (°F) | 65 | 65 |
| Liquid Temp. (°F) | 115 | 85 |
| Capacity (BTU/hr) | 58500 | 68500 |
| Power (W): | 5000 | 3440 |
| Current (Amps): | 7.3 | 5.6 |
| EER(BTU/Wh): | 11.7 | 19.9 |
| Mass Flow (Ibs/hr): | 860 | 880 |
| Sound Data @ | | |
| Sound Power (dBA): | 74 Avg | 79 Max |
| Vibration mils(peak-peak): | 2.0 Avg | 3.0 Max |
| Record Date: | 2014-03-06 | 5 |
| | Mechanical | |
| Displacement (in^3/Rev): 4.71 | | |
| Displacement (ft^3/Hr): | | |
| Overall Length (in): 9.69 | | |

Overall Width (in): 9.69 Overall Height (in): 17.24

Mounting Length (in): 7.50

Mounting Width (in): 7.50

| Mounting Height (in): | 17.99 | | | | |
|----------------------------------|--------------------|-------------------------------|----------------|------------------|--|
| Suction Size (in),Type: | 7 / 8 Stub | | | | |
| Discharge Size (in),Type: | 1 / 2 Stub | | | | |
| Initial Oil Charge (oz): | 66 | | | | |
| Oil Recharge (oz): | 62 | | | | |
| Net Weight (lbs): | 85.0 | | | | |
| Internal Free Volume (in^3): | 257 | | | | |
| Horse Power: | 4.8 | | | | |
| *Overall compressor height on (| Copeland Brand Pr | roduct's s elecifinean | nounting grom | nets. | |
| LRA High* (Amps): | | | 62.0 | | |
| LRA Low*(Amps): | | | | | |
| LRA Half Winding (Amps): | | | | | |
| MCC (Amps): | | | 12.8 | | |
| Max Operating Current (Am | ps): | | 11.0 | | |
| RLA, MCC/1.4(use for contac | ctor selection)(Ar | nps): | 9.1 | | |
| RLA, MCC/1.56(use for breal | ker & wire size se | election)(Amps): | 8.2 | | |
| RPM: | | | 3500 | | |
| Box IP : | | | 21 | | |
| UL File No: | | | SA-2337 | | |
| UL File Date: | | | 1993-07-26 | | |
| *Low and High refer to the low a | and high nominal | voltage ranges for | which the moto | or is approved. | |
| | | Capacitors | ; | | |
| Type Part No | Low MFD | High MFD | Volts | User Description | |
| No data available in table | | | | | |
| | | Alternate Applic | ations | | |
| Refrigerant V | /oltage | Phase | Frequency | Application | |
| R-22 HCFC 3 | 80/420 | 3 | 50 | Air Conditioning | |
| R-407C HFC 4 | 60 | 3 | 60 | Air Conditioning | |
| R-407C HFC 3 | 80/420 | 3 | 50 | Air Conditioning | |
| | | | | | |

Service Parts

| | | Service Parts | | | | |
|-------------|---|---|--|--|--|--|
| Component | Quantity | Description | Comment | | | |
| 918-0043-00 | 1 | HEATER-CRANKCASE | 240V 70W WRAP AROUND | | | |
| 918-0043-01 | 1 | HEATER-CRANKCASE | 480V 70W WRAP AROUND | | | |
| 527-0116-00 | 1 | SPACER-MOUNTING ASSM | | | | |
| 529-0060-24 | 1 | POWER CABLE-MOLDED PLUG | | | | |
| | 918-0043-00 918-0043-01 527-0116-00 | 918-0043-00 1 918-0043-01 1 527-0116-00 1 | 918-0043-00 1 HEATER-CRANKCASE 918-0043-01 1 HEATER-CRANKCASE 527-0116-00 1 SPACER-MOUNTING ASSM | | | |

Accessories

| Accessories | | | | |
|---------------------------------|-----------------------|--|--|--|
| Category | Part Number | Description | | |
| (1) Variable Frequency Drive | EVH-344012- R54BDB | EVH, 3Ø, 380-480v, Output 380-480v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X | | |
| Crankcase Heaters | 018-0095-09 | Crankcase Heater, 277V, 70W, 21" Lead Length | | |
| Crankcase Heaters | 018-0095-08 | Crankcase Heater, 400V, 70W, 48" Lead Length | | |
| Crankcase Heaters | 018-0095-07 | Crankcase Heater, 120V, 70W, 48" Lead Length | | |
| Crankcase Heaters | 018-0095-06 | Crankcase Heater, 575V, 70W, 48" Lead Length | | |
| Crankcase Heaters | 018-0095-05 | Crankcase Heater, 480V, 70W, 48" Lead Length | | |
| Crankcase Heaters | 018-0095-04 | Crankcase Heater, 240V, 70W, 48" Lead Length | | |
| Crankcase Heaters | 018-0095-03 | Crankcase Heater, 240V, 70W, 32" Lead Length | | |
| Crankcase Heaters | 018-0095-02 | Crankcase Heater, 575V, 70W, 21" Lead Length | | |
| Crankcase Heaters | 018-0095-01 | Crankcase Heater, 480V, 70W, 21" Lead Length | | |

| Electrical C | omponents |
|---------------------------------------|---------------------------|
| Part No: 071-0519-16 | Stator |
| Usage Description: Internal Protector | Part No: 546-2093-44 |
| Vendor Part Number | Usage Description: Stator |
| 35HM254 | Resistance: +/-7% |
| Vendor Name | Start Wdg: 2.80 |
| SENSATA | Run Wdg: 0.00 |
| Stator | |
| Part No: 546-2093-45 | |
| Usage Description: Stator | |
| Resistance: +/-7% | |
| Start Wdg: 2.80 | |
| Run Wdg: 0.00 | |
| | |

Nomenclature

| Family Series | | |
|---------------------------------|--|--|
| Z: Scroll | | |
| Application Range | | |
| R: A/C - R-22/407C/134a | | |
| Capacity | | |
| 57K: Capacity Multiplier-1000 | | |
| Oil Type | | |
| E: Polyol Ester | | |
| Motor Type | | |
| T: 3 Phase | | |
| Motor Protection | | |
| F: Internal Inherent Protection | | |
| Voltage | | |

Miscellaneous

| Alternate Application | | | | | |
|-----------------------|------|-------|---------|-------------|--|
| Refrigerant | Freq | Phase | Voltage | Application | |

| Refrigerant | Freq | Phase | Voltage | Application | |
|--------------|------------|------------------|-----------|-------------|--|
| HCFC R-22 | 50 | 3 Ø | 380/420 V | R1 AC | |
| HFC R-407C | 60 | 3 Ø | 460 V | R1 AC | |
| Nomenclature | | | | | |
| | | <u>ZR57K3E-T</u> | FD | | |
| Date | Data Group | Field | Old Data | New Data | |
| 06-Mar-2014 | 2 Pt Perf | Amp Cond | 2 5.5 | 5.6 | |
| | | | | | |