

ZP31K6E-PFV

HFC, R-410A, 60 Hz, 1 - Phase, 208/230 V

Air Conditioning

Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Copeland Wholesaler. Please check with your local Copeland Representative for international availability.

Summary

| Performance | | |
|--|------------|---------|
| Evaporator Temp. (°F) | 45.00 | 50 |
| Condensing Temp. (°F) | 130.00 | 100 |
| Return Gas Temp. (°F) | 65.00 | 70 |
| Liquid Temp. (°F) | 115.00 | 85 |
| Capacity (BTU/hr) | 31300 | 42500 |
| Power (W): | 2980 | 1985 |
| Current (Amps): | 13.1 | 8.7 |
| EER(BTU/Wh): | 10.5 | 21.45 |
| Mass Flow (lbs/hr): | 458 | 521 |
| Sound Data @ 50 / 115 | | |
| Sound Power (dBA): | 68 Avg | 73 Max |
| Vibration mils(peak-peak): | 2.0 Avg | 3.0 Max |
| Record Date: | 2021-10-26 | |
| Mechanical | | |
| Displacement (in ³ /Rev): | 1.79 | |
| Displacement (ft ³ /Hr): | | |
| Overall Length (in): | 9.00 | |
| Overall Width (in): | 9.00 | |
| Overall Height (in): | 15.28 | |
| Mounting Length (in): | 7.50 | |
| Mounting Width (in): | 7.50 | |
| Mounting Height (in): | 16.00 | |
| Suction Size (in),Type: | 3 / 4 Stub | |
| Discharge Size (in),Type: | 1 / 2 Stub | |
| Initial Oil Charge (oz): | 25 | |
| Oil Recharge (oz): | 21 | |
| Oil Type: | 3MA | |
| Net Weight (lbs): | 49.6 | |
| Internal Free Volume (in ³): | 115.3 | |

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

Electrical

| | |
|--|---------------------|
| LRA High* (Amps): | 83.9 |
| LRA Low*(Amps): | |
| LRA Half Winding (Amps): | |
| MCC (Amps): | 24 |
| Max Operating Current (Amps): | 15.00 |
| RLA, MCC/1.4(use for contactor selection)(Amps): | 17.1 |
| RLA, MCC/1.56(use for breaker & wire size selection)(Amps): | 15.4 |
| RPM: | 3500 |
| Box IP : | 21 |
| UL File No: | SA2337- 20031216 |
| UL File Date: | 2003-12-16 |

*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 |
|-----------------|-------------|---------|----------|-------|------------------|
| Run Capacitor | 014-0064-25 | 45.0 | 0.0 | 370 | |
| Start Capacitor | 014-0061-27 | 88.0 | 106.0 | 330 | |

Alternate Applications

| Refrigerant | Voltage | Phase | Frequency | Application |
|----------------------------|---------|-------|-----------|-------------|
| No data available in table | | | | |

Nomenclature

ZP31K6E-PFV

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Capacity

31K: Capacity Multiplier-1000

Model Variation

6: Model Variation

Oil Type

E: Polyol Ester

Motor Type

P: 1 Phase/Capacitor Run, Permanent Split Capacitor

Motor Protection

F: Internal Inherent Protection

Voltage

V: 60Hz (208/230-1) 50Hz (-)