

# ZP20KAE-PFV

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

## A/C Only

**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)                    | 20000      | 27500   |
| Power (W):                           | 2080       | 1315    |
| Current (Amps):                      | 9.3        | 5.9     |
| EER(BTU/Wh):                         | 9.6        | 20.9    |
| Mass Flow (lbs/hr):                  | 296        | 342     |
| Sound Data @ 50 / 115                |            |         |
| Sound Power (dBA):                   | 66 Avg     | 71 Max  |
| Vibration mils(peak-peak):           | 2.0 Avg    | 3.0 Max |
| Record Date:                         | 2016-04-01 |         |
| Mechanical                           |            |         |
| Displacement (in <sup>3</sup> /Rev): | 1.19       |         |
| Displacement (ft <sup>3</sup> /Hr):  |            |         |
| Overall Length (in):                 | 9.69       |         |
| Overall Width (in):                  | 9.69       |         |
| Overall Height (in):                 | 14.94      |         |
| Mounting Length (in):                | 7.50       |         |
| Mounting Width (in):                 | 7.50       |         |

|   |            |
|---|------------|
| <b>Mounting Height (in):</b>                  | 15.70      |
| <b>Suction Size (in),Type:</b>                | 3 / 4 Stub |
| <b>Discharge Size (in),Type:</b>              | 1 / 2 Stub |
| <b>Initial Oil Charge (oz):</b>               | 21         |
| <b>Oil Recharge (oz):</b>                     | 17         |
| <b>Oil Type:</b>                              | 3MA        |
| <b>Net Weight (lbs):</b>                      | 44.3       |
| <b>Internal Free Volume (in<sup>3</sup>):</b> | 139.0      |

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

#### Electrical

|  |                     |
|--|---------------------|
| <b>LRA High* (Amps):</b>   | 60.8                |
| <b>LRA Low*(Amps):</b>   |                     |
| <b>LRA Half Winding (Amps):</b>  |                     |
| <b>MCC (Amps):</b>   | 17.5                |
| <b>Max Operating Current (Amps):</b>                                   | 13.00               |
| <b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>                | 12.5                |
| <b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b> | 11.2                |
| <b>RPM:</b>  | 3500                |
| <b>Box IP :</b>  | 21                  |
| <b>UL File No:</b>   | SA2337-<br>20031216 |
| <b>UL File Date:</b>   | 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   | 014-0064-07 | 35.0    | 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

ZP20KAE-PFV

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### **Family Series**

**Z:** Scroll

### **Application Range**

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

### **Capacity**

**20K:** Capacity Multiplier-1000

### **Model Variation**

**A:** 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 (-)