

ZP40K6E-PFV

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

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) | 40000 | 53700 |
| Power (W): | 3740 | 2470 |
| Current (Amps): | 17.35 | 11.6 |
| EER(BTU/Wh): | 10.7 | 21.8 |
| Mass Flow (lbs/hr): | 588 | 659 |
| Sound Data @ 50 / 115 | | |
| Sound Power (dBA): | 68 Avg | 73 Max |
| Vibration mils(peak-peak): | 2.0 Avg | 3.0 Max |
| Record Date: | 2018-11-19 | |
| Mechanical | | |
| Displacement (in ³ /Rev): | 2.24 | |
| Displacement (ft ³ /Hr): | | |
| Overall Length (in): | 9.56 | |
| Overall Width (in): | 9.56 | |
| Overall Height (in): | 16.94 | |
| Mounting Length (in): | 7.50 | |
| Mounting Width (in): | 7.50 | |

| | |
|-------------------------------------|------------|
| Mounting Height (in): | 17.17 |
| Suction Size (in),Type: | 7 / 8 Stub |
| Discharge Size (in),Type: | 1 / 2 Stub |
| Initial Oil Charge (oz): | 42 |
| Oil Recharge (oz): | 36 |
| Net Weight (lbs): | 71.2 |
| Internal Free Volume (in^3): | 192.66 |

Horse Power:

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

| | |
|--|------------|
| LRA High* (Amps): | 124.0 |
| LRA Low*(Amps): | |
| LRA Half Winding (Amps): | |
| MCC (Amps): | 28.9 |
| Max Operating Current (Amps): | 24.9 |
| RLA, MCC/1.4(use for contactor selection)(Amps): | 20.6 |
| RLA, MCC/1.56(use for breaker & wire size selection)(Amps): | 18.5 |
| RPM: | 3500 |
| Box IP : | 21 |
| UL File No: | SA2337 |
| 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 | OPTIONAL |

Alternate Applications

| Refrigerant | Voltage | Phase | Frequency | Application |
|-------------|---------|-------|-----------|-------------|
|-------------|---------|-------|-----------|-------------|

No data available in table

Service Parts

| Service Parts | | | | |
|---------------|-------------|----------|---------------------------------|------------------------------|
| Reference | Component | Quantity | Description | Comment |
| 99 | 100-0605-02 | 1 | SCREW- TAPTITE W/ LOCKWASHER | |
| 99 | 527-0116-00 | 1 | SPACER-MOUNTING ASSM | |
| 99 | 529-0060-24 | 1 | POWER CABLE-MOLDED PLUG | |
| 99 | 914-0036-03 | 1 | CAP START KIT | |
| 99 | 914-0037-36 | 1 | RUN CAP KIT | |
| 99 | 918-0041-00 | 1 | HEATER-CRANKCASE | 240V 40W WRAP AROUND |
| 99 | 918-0041-01 | 1 | HEATER-CRANKCASE | 120V 40W WRAP AROUND |
| 99 | 940-0001-79 | 1 | RELAY-POTENTIAL KIT | |
| 99 | 943-0120-00 | 1 | SECURE START 1PH SINGLE PACK | |
| 99 | 971-0066-00 | 1 | MODULE-P210 ASSM | CORESENSE DIAGNOSTICS 2-WIRE |

Accessories

| Accessories | | |
|-------------------|-------------|---|
| Category | Part Number | Description |
| CoreSense | 971-0066-00 | CoreSense™ Diagnostics Module (2-Wire Module, 1-Phase Only) |
| CoreSense | 971-0067-00 | CoreSense™ Diagnostics Module (3-Wire Module, 1-Phase Only) |
| Crankcase Heaters | 998-7026-00 | Crankcase Heater Enclosure Box |
| 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 | 018-0096-00 | Crankcase Heater, 240V, 40W, 21.75" Lead Length |
| Crankcase Heaters | 018-0096-01 | Crankcase Heater, 120V, 40W, 21.75" Lead Length |
| Crankcase Heaters | 018-0096-02 | Crankcase Heater, 480V, 40W, 21.75" Lead Length |

| Category | Part Number | Description |
|----------|-------------|-------------|
|----------|-------------|-------------|

Electrical Components

| Electrical Components | |
|---------------------------------------|------------------------------------|
| Part No: 071-0509-51 | |
| Usage Description: Internal Protector | |
| <u>Vendor Part Number</u> | |
| 15HM1989 | |
| <u>Vendor Name</u> | |
| T.I. | |
| Part No: 071-0640-15 | |
| Usage Description: Internal Protector | |
| <u>Vendor Part Number</u> | |
| UP5PY0315E01 | |
| <u>Vendor Name</u> | |
| UBUKATA | |
| Part No: 071-0640-20 | Stator |
| Usage Description: Internal Protector | Part No: 546-5022-21 |
| <u>Vendor Part Number</u> | Usage Description: Stator |
| UP5NY0315-C01 | Resistance: +/-7% |
| <u>Vendor Name</u> | Start Wdg: 1.48 |
| UBUKATA | Run Wdg: 0.56 |
| Stator | Potential |
| Part No: 846-5022-21 | Part No: 040-0166-37 |
| Usage Description: Stator | Usage Description: Potential Relay |
| Resistance: +/-7% | <u>Vendor Part Number</u> |
| Start Wdg: 1.48 | RVA2AE6D-946 |
| Run Wdg: 0.56 | <u>Vendor Name</u> |
| | ELECTRICA |
| Start Capacitor | Run Capacitor |
| Part No: 014-0061-27 | Part No: 014-0064-25 |
| Low MFD: 88.0 | Low MFD: 45.0 |
| Type:Start Capacitor | Type:Run Capacitor |
| High MFD: 106.0 | High MFD: 0.0 |

Usage Description: Start Capacitor

Usage Description: Run Capacitor

Volts: 330

Volts: 370

Nomenclature

ZP40K6E-PFV

Family Series

Z: Scroll

Application Range

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

Capacity

40K: 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 (-)

Miscellaneous

Alternate Application

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

No data available in table

Nomenclature

[ZP40K6E-PFV](#)

| Date | Data Group | Field | Old Data | New Data |
|-------------|-------------|-------------|----------|----------|
| 09-Jun-2014 | Status | Status | P | A |
| 17-Jan-2014 | Status | Status | A | P |
| 17-Jan-2014 | RatingRefNo | RatingRefNo | 13-211 | 14-12 |
| 06-Jun-2014 | Rating | PubCode | | Y |
| 07-Jan-2014 | Rating | PubCode | | PRE |
| 06-Mar-2013 | Rating | PubCode | | N |

| Date | Data Group | Field | Old Data | New Data |
|-------------|-------------------|-----------------|-----------------|-----------------|
| 04-Dec-2013 | Mech | Rech Oil Charge | 38 | 36 |
| 09-Mar-2014 | Elec | Hi LRA | 117.0 | 124.0 |
| 09-Mar-2014 | Elec | Max OpCur | 21.4 | 24.9 |