# ZP104KCE-TFE

HFC, R-410A, 60 Hz, 3 - Phase, 575 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 | 35 |
| **Condensing Temp. (°F)** | 130 | 120 |
| **Return Gas Temp. (°F)** | 65 | 55 |
| **Liquid Temp. (°F)** | 115 | 105 |
| **Capacity (BTU/hr)** | 106000 | 94000 |
| **Power (W):** | 9380 | 8300 |
| **Current (Amps):** | 11 | 10.05 |
| **EER(BTU/Wh):** | 11.3 | 11.35 |
| **Mass Flow (lbs/hr):** | 1565 | 1310 |
| **Sound Data @** | | |
| **Sound Power (dBA):** | 76 Avg | 81 Max |
| **Vibration mils(peak-peak):** | 3.0 Avg | 4.5 Max |
| **Record Date:** | 2017-11-07 | |

| Mechanical | |
|---|---|
| **Displacement (in^3/Rev):** | 5.88 |
| **Displacement (ft^3/Hr):** | |
| **Overall Length (in):** | 11.70 |
| **Overall Width (in):** | 10.33 |
| **Overall Height (in):** | 22.00 |
| **Mounting Length (in):** | 7.50 |
| **Mounting Width (in):** | 7.50 |

| | |
|---|---|
| **Mounting Height (in):** | 22.75 |
| **Suction Size (in),Type:** | 1 1 / 8 Stub |
| **Discharge Size (in),Type:** | 7 / 8 Stub |
| **Initial Oil Charge (oz):** | 85 |
| **Oil Recharge (oz):** | 81 |
| **Net Weight (lbs):** | 107.6 |
| **Internal Free Volume (in^3):** | 454 |
| **Horse Power:** | |

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

**Electrical**

| | |
|---|---|
| **LRA High* (Amps):** | 93.7 |
| **LRA Low*(Amps):** | |
| **LRA Half Winding (Amps):** | |
| **MCC (Amps):** | 17.6 |
| **Max Operating Current (Amps):** | 14.0 |
| **RLA, MCC/1.4(use for contactor selection)(Amps):** | 12.6 |
| **RLA, MCC/1.56(use for breaker & wire size selection)(Amps):** | 11.3 |
| **RPM:** | 3500 |
| **Box IP :** | 21 |
| **UL File No:** | SA2337 |
| **UL File Date:** | 2012-06-20 |

*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 |
|---|---|---|---|---|
| No data available in table | | | | |

## Service Parts

**Service Parts**

| Reference | Component | Quantity | Description | Comment |
|---|---|---|---|---|
| 99 | 527-0221-00 | 1 | SPACER-MOUNTING ASSM | |
| 99 | 529-0099-00 | 1 | POWER CABLE-MOLDED PLUG | |
| 99 | 910-0715-00 | 1 | VALVE-OIL ADJUSTMENT 1/4FL X M9 | |
| 99 | 918-0043-00 | 1 | HEATER-CRANKCASE | 240V 70W WRAP AROUND |
| 99 | 918-0043-01 | 1 | HEATER-CRANKCASE | 480V 70W WRAP AROUND |
| 99 | 921-0227-00 | 1 | CONNECTOR BLOCK KIT | |
| 99 | 998-0010-00 | 1 | SIGHTGLASS KIT | |
| 99 | 998-0034-02 | 1 | SERV ADAPTOR KIT 7/8 STUB | DISCHARGE SWEAT TO ROTALOCK |
| 99 | 998-0034-03 | 1 | ADAP KIT 11/8"SWT / 13/4 RL | SUCTION SWEAT TO ROTALOCK |
| 99 | 998-0034-08 | 1 | ADPTR 11/4-12 TO 7/8 ID | DISCHARGE ROTALOCK TO SWEAT |

## Accessories

**Accessories**

| Category | Part Number | Description |
|---|---|---|
| Crankcase Heaters | 018-0095-00 | Crankcase Heater, 240V, 70W, 21" Lead Length |
| Crankcase Heaters | 018-0095-01 | Crankcase Heater, 480V, 70W, 21" Lead Length |
| Crankcase Heaters | 018-0095-02 | Crankcase Heater, 575V, 70W, 21" Lead Length |
| Crankcase Heaters | 018-0095-03 | Crankcase Heater, 240V, 70W, 32" Lead Length |
| Crankcase Heaters | 018-0095-04 | Crankcase Heater, 240V, 70W, 48” Lead Length |
| Crankcase Heaters | 018-0095-05 | Crankcase Heater, 480V, 70W, 48” Lead Length |
| Crankcase Heaters | 018-0095-06 | Crankcase Heater, 575V, 70W, 48" Lead Length |
| Crankcase Heaters | 018-0095-07 | Crankcase Heater, 120V, 70W, 48" Lead Length |
| Crankcase Heaters | 018-0095-08 | Crankcase Heater, 400V, 70W, 48" Lead Length |
| Crankcase Heaters | 018-0095-09 | Crankcase Heater, 277V, 70W, 21" Lead Length |

## Electrical Components

**Electrical Components**

Part No: 071-0519-65

Usage Description: Internal Protector

Vendor Part Number

35HM611

Vendor Name

SENSATA

### Stator

Part No: 546-2142-04

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.33

Run Wdg: 0.00

## Nomenclature

ZP104KCE-TFE

**Family Series**

**Z:** Scroll

**Application Range**

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

**Capacity**

**104K:** Capacity Multiplier-1000

**Oil Type**

**E:** Polyol Ester

**Motor Type**

**T:** 3 Phase

**Motor Protection**

**F:** Internal Inherent Protection

**Voltage**

**E:** 60Hz (575-3) 50Hz (-)

## Miscellaneous

Alternate Application

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

Nomenclature

ZP104KCE-TFE

| Date | Data Group | Field | Old Data | New Data |
|---|---|---|---|---|
| 22-Feb-2013 | Status | Status | P | A |

| Date | Data Group | Field | Old Data | New Data |
|---|---|---|---|---|
| 22-Jan-2013 | RatingRefNo | RatingRefNo | 12-3430 | 12-3665 |
| 22-Feb-2013 | Rating | PubCode | | Y |
| 26-Oct-2012 | Rating | PubCode | | PRE |
| 22-Feb-2013 | 2 Pt Perf | Max Evap | 50 | 80 |
| 22-Jan-2013 | 2 Pt Perf | Amp Cond 1 | 10.8 | 11 |
| 22-Jan-2013 | 2 Pt Perf | Amp Cond 2 | 9.8 | 10.05 |
| 22-Jan-2013 | 2 Pt Perf | Cap Cond 2 | 94100 | 94000 |