

# 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	

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

#### Horse Power:

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

#### Electrical

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