

# ZP38K5E-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)	37500	51000
Power (W):	3700	2400
Current (Amps):	17	11.5
EER(BTU/Wh):	10.1	21.2
Mass Flow (lbs/hr):	555	625
Sound Data @ 45 / 130		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-01	
Mechanical		
Displacement (in^3/Rev):	2.18	
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	

<b>Mounting Height (in):</b>	17.17
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	36
<b>Net Weight (lbs):</b>	72.0
<b>Internal Free Volume (in^3):</b>	187

**Horse Power:**

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

**Electrical**

<b>LRA High* (Amps):</b>	109.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	31
<b>Max Operating Current (Amps):</b>	25.0
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	22.1
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	19.9
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA-2337
<b>UL File Date:</b>	2003-12-17

\*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
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No data available in table

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
5	914-0037-36	1	RUN CAP KIT	
6	940-0001-79	1	RELAY-POTENTIAL KIT	
7	998-0510-98	1	VLV KIT 1/2"SWT/1-14UNC	DISCHARGE ROTALOCK
8	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	SUCTION ROTALOCK
9	998-7026-00	1	HEATER JUNCTION BOX KIT	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	SWEAT TO ROTALOCK ADAPTER KIT SUCTION

Accessories

Accessories		
Category	Part Number	Description
CoreSense	571-0066-00	CoreSense™ Diagnostics Module (2 wire)
CoreSense	571-0066-01	CoreSense Diagnostics (Fixed Speed AC)
CoreSense	571-0067-00	CoreSense™ Diagnostics Module (3 wire)
CoreSense	571-0067-01	CoreSense Diagnostics (Fixed Speed HP)
CoreSense	571-0072-00	CoreSense Diagnostics (Two Stage UT)
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
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length

Electrical Components

Electrical Components	
Part No: 071-0509-34	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
15HM1637	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0640-01	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
UP5LY0515-C01	
<u>Vendor Name</u>	
UBUKATA	
Part No: 071-0640-03	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-5010-06
<u>Vendor Part Number</u>	Usage Description: Stator
UP5HY315-C01	
<u>Vendor Name</u>	

UBUKATA

### Stator

Part No: 846-5010-06

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.22

Run Wdg: 0.55

### Potential

Part No: 040-0166-37

Usage Description: Potential Relay

Vendor Part Number

RVA2AE6D-946

Vendor Name

ELECTRICA

### Run Capacitor

Part No: 014-0064-25

Low MFD: 45.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Resistance: +/-7%

### Stator

Start Wdg: 1.25

Part No: 846-5022-07

Run Wdg: 0.54

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.48

Run Wdg: 0.56

### Start Capacitor

Part No: 014-0061-27

Low MFD: 88.0

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

Nomenclature

ZP38K5E-PFV
<b>Family Series</b>
<b>Z:</b> Scroll
<b>Application Range</b>
<b>P:</b> A/C - R-410A/B
<b>Capacity</b>
<b>38K:</b> Capacity Multiplier-1000
<b>Oil Type</b>
<b>E:</b> Polyol Ester
<b>Motor Type</b>
<b>P:</b> 1 Phase/Capacitor Run, Permanent Split Capacitor
<b>Motor Protection</b>
<b>F:</b> Internal Inherent Protection
<b>Voltage</b>
<b>V:</b> 60Hz (208/230-1) 50Hz (-)

Miscellaneous

Alternate Application				
<b>Refrigerant</b>	<b>Freq</b>	<b>Phase</b>	<b>Voltage</b>	<b>Application</b>
No data available in table				
Nomenclature				
<a href="#">ZP38K5E-PFV</a>				
<b>Date</b>	<b>Data Group</b>	<b>Field</b>	<b>Old Data</b>	<b>New Data</b>
07-Jan-2005	Status	Status	P	A
29-Aug-2012	Sound	Sound Start Max	75	77
04-Oct-2007	Sound	Sound Start Max	77	75
07-Jan-2005	Sound	Sound Start	68	69
07-Jan-2005	Sound	Sound Start Max	76	77
07-Jan-2005	Sound	Sound Stop	56	63
07-Jan-2005	Sound	Sound Stop Max	64	71
04-Oct-2007	RatingRefNo	RatingRefNo	07-263	07-909
01-Jun-2007	RatingRefNo	RatingRefNo	04-1849	07-263

Date	Data Group	Field	Old Data	New Data
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