

# ZR38K5E-PFV

HFC, R-407C, 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)	36600	49300
Power (W):	3490	2310
Current (Amps):	16.3	11.25
EER(BTU/Wh):	10.5	21.35
Mass Flow (lbs/hr):	532	607
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-13	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	3.11	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
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>	34
<b>Net Weight (lbs):</b>	64.9
<b>Internal Free Volume (in^3):</b>	207.6

**Horse Power:**

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

<b>LRA High* (Amps):</b>	112.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	30
<b>Max Operating Current (Amps):</b>	21.0
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	21.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	19.2
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA-2337

**UL File Date:**

\*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	014-0064-28	55.0	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
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	
4	914-0037-39	1	RUN CAP KIT	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

## Accessories

Accessories		
Category	Part Number	Description
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

## Electrical Components

Electrical Components
Part No: 071-0509-10
Usage Description: Internal Protector
<u>Vendor Part Number</u>

15HM1781

Vendor Name

T I

Part No: 071-0640-01

Usage Description: Internal Protector

Vendor Part Number

UP5LY0515-C01

Vendor Name

UBUKATA

**Stator**

Part No: 846-5010-14

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.40

Run Wdg: 0.57

**Start Capacitor**

Part No: 014-0061-27

Low MFD: 88.0

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

**Stator**

Part No: 546-5010-14

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.40

Run Wdg: 0.57

**Potential**

Part No: 040-0166-37

Usage Description: Potential Relay

Vendor Part Number

RVA2AE6D-946

Vendor Name

ELECTRICA

**Run Capacitor**

Part No: 014-0064-28

Low MFD: 55.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Nomenclature

ZR38K5E-PFV

**Family Series**

**Z:** Scroll

**Application Range**

**R:** A/C - R-22/407C/134a

**Capacity**

**38K:** Capacity Multiplier-1000

**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
<a href="#">HCFC R-22</a>	60	1 Ø	208/230 V	R1
Nomenclature				
<a href="#">ZR38K5E-PFV</a>				
Date	Data Group	Field	Old Data	New Data
13-Oct-2015	Rating	PubCode		Y
12-May-2010	Rating	PubCode	PRE	Y
09-Mar-2010	Rating	PubCode		PRE
17-Nov-2010	2 Pt Perf	Amp Cond 1	11.25	16.3
17-Nov-2010	2 Pt Perf	Amp Cond 2	16.3	11.25
17-Nov-2010	2 Pt Perf	Cap Cond 1	49300	36600
17-Nov-2010	2 Pt Perf	Cap Cond 2	36600	49300
17-Nov-2010	2 Pt Perf	EER Cond 1	21.35	10.5
17-Nov-2010	2 Pt Perf	EER Cond 2	10.5	21.35
17-Nov-2010	2 Pt Perf	MassFlow Cond 1	607	532