

# ZP49K6E-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)	49400	66300
Power (W):	4600	3040
Current (Amps):	20.55	13.75
EER(BTU/Wh):	10.75	21.8
Mass Flow (lbs/hr):	722	812
Sound Data @ 50 / 115		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-24	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	2.77	
Displacement (ft <sup>3</sup> /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>	74.8
<b>Internal Free Volume (in^3):</b>	177.68

**Horse Power:**

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

<b>LRA High* (Amps):</b>	152.5
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	37
<b>Max Operating Current (Amps):</b>	30.0
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	26.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	23.7
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337
<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	014-0064-34	70.0	0.0	370	POTTED PROT
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
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	914-0037-51	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
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Electrical Components

Electrical Components	
Part No: 071-0510-10	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
16HM143	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0510-36	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-5022-19
<u>Vendor Part Number</u>	Usage Description: Stator
16HM143	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.93
SENSATA	Run Wdg: 0.42
<b>Stator</b>	<b>Potential</b>
Part No: 546-5128-19	Part No: 040-0166-37
Usage Description: Stator	Usage Description: Potential Relay
Resistance: +/-7%	<u>Vendor Part Number</u>
Start Wdg: 0.93	RVA2AE6D-946
Run Wdg: 0.42	<u>Vendor Name</u>
	ELECTRICA
<b>Start Capacitor</b>	<b>Run Capacitor</b>
Part No: 014-0061-27	Part No: 014-0064-34
Low MFD: 88.0	Low MFD: 70.0
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

ZP49K6E-PFV
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**Family Series****Z:** Scroll**Application Range****P:** A/C - R-410A/B**Capacity****49K:** 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
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No data available in table

## Nomenclature

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Date	Data Group	Field	Old Data	New Data
20-Mar-2014	Status	Status	P	A
17-Jan-2014	Status	Status	A	P
17-Jan-2014	RatingRefNo	RatingRefNo	13-213	14-14
20-Mar-2014	Rating	PubCode		Y
07-Jan-2014	Rating	PubCode		PRE
06-Mar-2013	Rating	PubCode		N
04-Dec-2013	Mech	Rech Oil Charge	38	36
18-Dec-2013	Elec	Hi LRA	147.3	152.5
20-Nov-2013	Elec	Hi LRA	NA	147.3
13-Oct-2014	2 Pt Perf	Amp Cond 1	13.75	20.55