

ZPS49K5E-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	115
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	100
Capacity (BTU/hr)	49100	60500
Power (W):	4590	3790
Current (Amps):	21.15	17.8
EER(BTU/Wh):	10.7	16
Mass Flow (lbs/hr):	723	806
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-22	
Mechanical		
Displacement (in^3/Rev):	2.82	
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	

Mounting Height (in):	17.17
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	36
Net Weight (lbs):	76.5
Internal Free Volume (in^3):	170.02

Horse Power:

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

LRA High* (Amps):	139.9
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	42
Max Operating Current (Amps):	37.0
RLA, MCC/1.4(use for contactor selection)(Amps):	30.0
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	26.9
RPM:	3500
Box IP :	21
UL File No:	SA2337
UL File Date:	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	014-0064-14	40.0	0.0	440	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	208/230	1	60	A/C, 67% Load Of Compressor Model

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	914-0037-18	1	RUN CAP KIT W/CLAMP	
2	914-0036-03	1	CAP START KIT	
4	527-0116-00	1	SPACER- MOUNTING ASSM	
5	918-0041-00	1	HEATER- CRANKCASE	240V 40W WRAP AROUND
5	918-0041-01	1	HEATER- CRANKCASE	120V 40W WRAP AROUND
5	918-0041-02	1	HEATER- CRANKCASE	480V 40W WRAP AROUND
6	529-0060-24	1	POWER CABLE- MOLDED PLUG	3-PIN MOLDED PLUG
6	529-0138-01	1	CABLE-POWER ASSM	2-PIN MODULATION PLUG
99	940-0140-03	1	RELAY-QUICK CONNECT KIT	
99	998-0069-01	1	ADAPTER & SEAL KIT	

Accessories

Accessories		
Category	Part Number	Description
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-06	Crankcase Heater, 240V, 40W, 31.75" Lead Length
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length

Category	Part Number	Description
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	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length

Electrical Components

Electrical Components	
Part No: 071-0510-15	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
16HM170	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0510-30	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
16HM170-43	
<u>Vendor Name</u>	
T. I.	
Part No: 071-0707-00	Stator
Usage Description: Internal Protector	Part No: 546-5022-15
<u>Vendor Part Number</u>	Usage Description: Stator
UP16FY0510-A0	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 1.69
UBUKATA	Run Wdg: 0.42
Stator	Stator
Part No: 546-5022-38	Part No: 846-5022-15
Usage Description: Stator	Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.69

Potential

Run Wdg: 0.42

Part No: 040-0166-02

Usage Description: Potential Relay

Vendor Part Number

RVA4AG6D-934

Vendor Name

ELECTRICA

Run Capacitor

Part No: 014-0064-14

Low MFD: 40.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 440

Resistance: +/-7%

Start Wdg: 1.69

Start Capacitor

Run Wdg: 0.42

Part No: 014-0061-27

Low MFD: 88.0

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

Nomenclature

ZPS49K5E-PFV
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Modulation
S: Two Step
Capacity
49K: 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
HFC R-410A	60	1 Ø	208/230 V	R1 A6
Nomenclature				
ZPS49K5E-PFV				

Date	Data Group	Field	Old Data	New Data
09-Apr-2010	Status	Status	P	A
09-Apr-2010	Status	Status	P	A
10-May-2010	Sound	Sound Ave	72	70
10-May-2010	Sound	Sound Ave	72	70
10-May-2010	Sound	Sound Max	77	75
10-May-2010	Sound	Sound Max	77	75
08-May-2010	Sound	Sound Ave	70	72
08-May-2010	Sound	Sound Ave	70	72
08-May-2010	Sound	Sound Max	75	77
08-May-2010	Sound	Sound Max	75	77