ZPS40K5E-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)	41200	51000
Power (W):	3980	3230
Current (Amps):	18.75	15.4
EER(BTU/Wh):	10.35	15.8
Mass Flow (lbs/hr):	607	679
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-24	

Mechanical	
Displacement (in^3/Rev):	2.39
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):	72.9
Internal Free Volume (in^3):	177.5
Horse Power:	

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

Electrical

LRA High* (Amps):	104.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	33
Max Operating Current (Amps):	31.0
RLA, MCC/1.4(use for contactor selection)(Amps):	23.6
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	21.2
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	014-0064-06	30.0	0.0	370	
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	914-0037-10	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: 071-0510-21

Usage Description: Internal Protector

Vendor Part Number

16HM179

Vendor Name

T. I.

Part No: 071-0640-06

Usage Description: Internal Protector

Vendor Part Number

UP5LY0515-E01

Vendor Name

UBUKATA

Stator

Part No: 846-5022-03

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.90

Run Wdg: 0.53

Start Capacitor

Part No: 014-0061-27

Low MFD: 88.0

Stator

Part No: 546-5022-03

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.90

Run Wdg: 0.53

Potential

Part No: 040-0166-02

Usage Description: Potential Relay

Vendor Part Number

RVA4AG6D-934

Vendor Name

ELECTRICA

Run Capacitor

Part No: 014-0064-06

Low MFD: 30.0

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

ZPS40K5E-PFV

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Modulation

S: Two Step

Capacity

40K: 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

ZPS40K5E-PFV

Date	Data Group	Field	Old Data	New Data
09-Apr-2010	Status	Status	P	A
09-Apr-2010	Status	Status	P	A
01-Jul-2010	Sound	Sound Ave	72	70

Date	Data Group	Field	Old Data	New Data
01-Jul-2010	Sound	Sound Max	77	75
30-Jun-2010	Sound	Sound Ave	68	72
30-Jun-2010	Sound	Sound Ave	68	72
30-Jun-2010	Sound	Sound Max	73	77
30-Jun-2010	Sound	Sound Max	73	77