

ZP36K5E-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)	36000	49000
Power (W):	3540	2330
Current (Amps):	15.75	11
EER(BTU/Wh):	10.15	21.05
Mass Flow (lbs/hr):	531	602
Sound Data @ 45 / 130		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2020-10-20	
Mechanical		
Displacement (in^3/Rev):	2.10	
Displacement (ft^3/Hr):		
Overall Length (in):	9.56	
Overall Width (in):	9.56	
Overall Height (in):	19.94	
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):	71.2
Internal Free Volume (in^3):	190.8

Horse Power:

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

Electrical

LRA High* (Amps):	112.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	28
Max Operating Current (Amps):	22.0
RLA, MCC/1.4(use for contactor selection)(Amps):	20.0
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	17.9
RPM:	3500
Box IP :	21
UL File No:	SA-2337
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	014-0064-25	45.0	0.0	370	
Run Capacitor	014-0064-29	50.0	0.0	370	OPTIONAL CUSTOMER REQUIREMENTS
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	
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: 071-0546-05	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
15HM1646	
<u>Vendor Name</u>	
T.I.	
Part No: 071-0640-01	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
UP5LY0515-C01	
<u>Vendor Name</u>	
UBUKATA	
Part No: 071-0640-04	Stator
Usage Description: Internal Protector	Part No: 546-5010-04
<u>Vendor Part Number</u>	Usage Description: Stator
UP5HY0515-C01	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 1.31
UBUKATA	Run Wdg: 0.56
Stator	Stator
Part No: 546-5022-06	Part No: 846-5010-04
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 1.56	Start Wdg: 1.31
Run Wdg: 0.58	Run Wdg: 0.56
Stator	Stator
Part No: 846-5022-06	Part No: 846-5125-01
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 1.56	Start Wdg: 1.64
Run Wdg: 0.58	Run Wdg: 0.67
Potential	Start Capacitor
Part No: 040-0166-37	Part No: 014-0061-27
Usage Description: Potential Relay	Low MFD: 88.0

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

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

Run Capacitor

Part No: 014-0064-29

Low MFD: 50.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Nomenclature

ZP36K5E-PFV

Family Series

Z: Scroll

Application Range

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

Capacity

36K: 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
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No data available in table

Nomenclature

[ZP36K5E-PFV](#)

Date	Data Group	Field	Old Data	New Data
07-Jan-2005	Status	Status	P	A
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
01-Oct-2008	RatingRefNo	RatingRefNo	04-1851	08-1127
07-Jan-2005	RatingRefNo	RatingRefNo	03-726	04-1851
06-Jan-2005	Rating	PubCode		Y
20-Oct-2020	Perf	DataSheetNo	2.2fAC60-08-1127	2.2fAC60-20-506
20-Mar-2006	Mech	Mech Spec No	MS91-Z587	MS91-Z802