ZP51K5E-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

Performar	ice	
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	51000	69500
Power (W):	4860	3240
Current (Amps):	21.8	15
EER(BTU/Wh):	10.5	21.4
Mass Flow (lbs/hr):	755	850
Sound Data @ 45 / 130		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-09	

Mechanical

Displacement (in^3/Rev):	2.94
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):	75.8		
Internal Free Volume (in^3):	172.1		
Horse Power:			
Overall compressor height on Cc	peland Brand	d Product's s pecifieda	mounting gro
LRA High* (Amps):			134.0
LRA High* (Amps): LRA Low*(Amps):			134.0
			134.0
LRA Low*(Amps):			134.0
LRA Low*(Amps): LRA Half Winding (Amps):	s):		
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps):		(Amps):	41.2
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amps	or selection)		41.2 31.0
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amps RLA, MCC/1.4(use for contact	or selection)		41.2 31.0 29.4
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amps RLA, MCC/1.4(use for contact RLA, MCC/1.56(use for breake	or selection)		41.2 31.0 29.4 26.4
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amps RLA, MCC/1.4(use for contactor RLA, MCC/1.56(use for breake RPM:	or selection)		41.2 31.0 29.4 26.4 3500

*Low and High refer to the low and h	high nominal voltage ranges t	for which the motor is approved.
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Туре	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-27	80.0	0.0	370	OPTIONAL
Run Capacitor	014-0064-34	70.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
		Alternate Ap	plications		
Refrigerant	Voltage	Phase	Frequency	/	Application

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	914-0037-51	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	CoreSenseTM Diagnostics Module (2 wire)
CoreSense	571-0066-01	CoreSense Diagnostics (Fixed Speed AC)
CoreSense	571-0067-00	CoreSenseTM 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 Co	omponents
Part No: 071-0510-10	
Usage Description: Internal Protector	
Vendor Part Number	
16HM143	
Vendor Name	
SENSATA	
Part No: 071-0510-28	
Usage Description: Internal Protector	
Vendor Part Number	
16HM184	
Vendor Name	
SENSATA	
Part No: 071-0640-09	Stator
Usage Description: Internal Protector	Part No: 546-5010-09
Vendor Part Number	Usage Description: Stator
UP5PFY0315E06	
Vendor Name	

UBUKATA

Stator

Part No: 546-5022-11

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.93

Run Wdg: 0.42

Stator

Part No: 846-5022-11

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.93

Run Wdg: 0.42

Start Capacitor

Part No: 014-0061-27 Low MFD: 88.0 Type:Start Capacitor High MFD: 106.0 Usage Description: Start Capacitor Volts: 330 **Run Capacitor**

Part No: 014-0064-34

Low MFD: 70.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Nomenclature

ZP51K5E-PFV

Family Series

Z: Scroll

Application Range

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

Capacity

51K: Capacity Multiplier-1000

Resistance: +/-7%

State Wdg: 0.83 Part No: 546-5128-11 Run Wdg: 0.44 Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.93

Run Wdg: 0.42

Potential Part No: 040-0166-37

Usage Description: Potential Relay

Vendor Part Number

RVA2AE6D-946

Vendor Name

ELECTRICA

Run Capacitor

Part No: 014-0064-27

Low MFD: 80.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Оіl Туре
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			
No data available in table							
		Nomencla	ture				
		<u>ZP51K5E-</u>	<u>PFV</u>				
Date	Data Group	Field	Old Data	New Data			
)7-Jan-2005	Status	Status	Ρ	А			
)7-Jan-2005	Sound	Sound Start	68	69			
07-Jan-2005	Sound	Sound Start Max	76	77			
)7-Jan-2005	Sound	Sound Stop	56	63			
7-Jan-2005	Sound	Sound Stop Max	64	71			
4-Sep-2004	Sound	Sound Max	71	73			
1-Oct-2008	RatingRefNo	RatingRefNo	04-1768	08-1126			
3-Oct-2004	RatingRefNo	RatingRefNo	03-730	04-1768			
5-Jan-2005	Rating	PubCode		Y			
6-Jul-2004	Rating	PubCode		PRE			