ZP51K6E-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

		Performanc	e	
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	68600
Power (W):			4790	3160
Current (Amps):			21.5	14.4
EER(BTU/Wh):			10.65	21.75
Mass Flow (lbs/hr):			745	840
Sound Data @ 50 / 115				
Sound Power (dBA):			68 Avg	73 Max
Vibration mils(peak-peak):			2.0 Avg	3.0 Max
Record Date:			2017-04-25	
		Mechanica	l	
Displacement (in^3/Rev):	2.90			
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):	173.5

Horse Power:

 ${}^*\text{Overall compressor height on Copeland Brand Product's } {}_{\textbf{x}|\textbf{ecifical}} \textbf{mounting grommets}.$

LRA High* (Amps):	144.2
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	38
Max Operating Current (Amps):	31.0
RLA, MCC/1.4(use for contactor selection)(Amps):	27.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	24.4
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

Туре	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-34	70.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
·		Alternate App	olications		

	Refrigerant	Voltage	Phase	Frequency	Application
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No data available in table

Service Parts

Service Parts					
Reference	Component	Quantity	Description	Comment	
9	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER		
9	527-0116-00	1	SPACER-MOUNTING ASSM		
9	529-0060-24	1	POWER CABLE-MOLDED PLUG		
9	914-0036-03	1	CAP START KIT		
9	914-0037-51	1	RUN CAP KIT		
9	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND	
9	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND	
9	940-0001-79	1	RELAY-POTENTIAL KIT		
9	943-0120-00	1	SECURE START 1PH SINGLE PACK		
9	971-0066-00	1	MODULE-P210 ASSM	CORESENSE DIAGNOSTICS 2-WIRE	

Accessories

Accessories				
Category	Part Number	Description		
CoreSense	971-0066-00	CoreSenseTM Diagnostics Module (2-Wire Module, 1-Phase Only)		
CoreSense	971-0067-00	CoreSenseTM 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 Number Description		Part	
	Category		Description

Electrical Components

Electrical Components

Part No: 071-0510-00 Usage Description: Internal Protector Vendor Part Number 16HM106 Vendor Name SENSATA Part No: 071-0510-33 Usage Description: Internal Protector Vendor Part Number 16HM106 Vendor Name SENSATA Part No: 071-0707-03 **Stator** Part No: 546-5022-20 Usage Description: Internal Protector Usage Description: Stator Vendor Part Number Resistance: +/-7% UP16PAO510A0 Start Wdg: 0.76 Vendor Name Run Wdg: 0.41 **UBAKATA Stator Stator** Part No: 546-5022-24 Part No: 846-5022-20 Usage Description: Stator Usage Description: Stator Resistance: +/-7% Resistance: +/-7% Start Wdg: 0.76 Start Wdg: 0.76 Run Wdg: 0.41 Run Wdg: 0.41 **Potential Start Capacitor** Part No: 040-0166-37 Part No: 014-0061-27 Low MFD: 88.0 Usage Description: Potential Relay Vendor Part Number Type:Start Capacitor RVA2AE6D-946 High MFD: 106.0 Vendor Name Usage Description: Start Capacitor **ELECTRICA** 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

ZP51K6E-PFV

Family Series

Z: Scroll

Application Range

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

Capacity

51K: 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

Refrigerant	Freq	Freq Phase Voltage Applica		lication	
No data available i	in table				
		Nomeno	clature		
		<u>ZP51K6</u>	E-PFV		
Date	Data Group	Field		Old Data	New Data
29-Jan-2014	Status	Status		Р	А
22-Jan-2014	Status	Status		А	Р
29-Jan-2014	RatingRefNo	RatingRefNo	ס	14-15	13-171
	RatingRefNo	RatingRefNo	0	13-171	14-15
22-Jan-2014	RadingRenvo	3			

Date	Data Group	Field	Old Data	New Data
14-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	142.3	144.2