# **ZPS20K5E-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)	20200	25100
Power (W):	2040	1675
Current (Amps):	9	7.4
EER(BTU/Wh):	9.9	15
Mass Flow (lbs/hr):	298	333
Sound Data @ 45 / 130		
Sound Power (dBA):	66 Avg	71 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-22	

Displacement (in^3/Rev):	1.21
Displacement (ft^3/Hr):	147.0
Overall Length (in):	9.56
Overall Width (in):	9.56
Overall Height (in):	15.27
Mounting Length (in):	7.50
Mounting Width (in):	7.50

#### Mechanical

Refrigerant	Voltage	Phase	Frequency		Application
Start Capacitor	014-0061-27	88.0 Alternate Appli	106.0	330	OPTIONAL
Run Capacitor	014-0064-07	35.0	0.0	370	
Туре	Part No	Low MFD	High MFD	Volts	User Description
	5	Capacito			
ow and High refer t.	o the low and high nom	ninal voltage ranges for		tor is approve	d.
UL File Date:			2003-12-16		
UL File No:			SA2337		
RPM: Box IP :			3500		
	e for breaker & wire siz	ze selection)(Amps):	11.7		
	for contactor selection		13.0		
Max Operating Cu	-		17.0		
MCC (Amps):			18.2		
LRA Half Winding	(Amps):				
LRA Low*(Amps):					
LRA High* (Amps)	:		58.3		
Overall compressor l	neight on Copeland Brar	nd Product's <b>specified</b>	mounting gron	nmets.	
Horse Power:					
Internal Free Volur					
Oil Recharge (oz): Net Weight (lbs):	21 47.3				
Initial Oil Charge (					
Discharge Size (in)					
Suction Size (in),Ty					

R-410A HFC

208/230

1

60

A/C, 67% Load Of Compressor Model

## Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
1	914-0037-11	1	RUN CAP KIT W/CLAMP	
2	914-0036-03	1	CAP START KIT	
3	940-0001-79	1	RELAY-POTENTIAL KIT	
4	527-0044-15	1	SPACER - MOUNTING ASSM	
5	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND
5	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND
5	918-0052-03	1	STAR CCH KIT	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	998-0069-01	1	ADAPTER & SEAL KIT	

### Accessories

Accessories			
Category	Part Number	Description	
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	018-0094-04	Crankcase Heater, 575V, 40W, 21.25" Lead Length	
Crankcase Heaters	018-0094-00	Crankcase Heater, 240V, 40W	

# **Electrical Components**

Electr	ical Components
Part No: 071-0512-41	Stator
Usage Description: Internal Protector	Part No: 546-5016-02
Vendor Part Number	Usage Description: Stator

15HM2458-102	Resistance: +/-7%
Vendor Name	Start Wdg: 1.64
SENSATA	Run Wdg: 1.30
Potential	Start Capacitor
Part No: 040-0166-37	Part No: 014-0061-27
Usage Description: Potential Relay	Low MFD: 88.0
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: 014-0064-07	
Low MFD: 35.0	
Type:Run Capacitor	
High MFD: 0.0	
Usage Description: Run Capacitor	
Volts: 370	

# Nomenclature

Family Series	
Z: Scroll	
Application Range	
<b>P:</b> A/C - R-410A/B	
Modulation	
S: Two Step	
Capacity	
20K: Capacity Multiplier-1000	
Oil Type	
E: Polyol Ester	
Motor Type	
P: 1 Phase/Capacitor Run, Permanent Split C	apacitor
Motor Protection	
F: Internal Inherent Protection	
Voltage	
<b>V:</b> 60Hz (208/230-1) 50Hz (-)	

Alternate Application					
Refrigerant	Freq	Phase	Voltage	Арр	plication
<u>HFC R-410A</u>	60	1 Ø	208/230 V	R1 /	<b>A</b> 6
		Nomenc	lature		
		<u>ZPS20K5</u>	E-PFV		
Date	Data Group	Field		Old Data	New Data
05-Jan-2011	Status	Status		Р	А
05-Jan-2011	Status	Status		Ρ	А
22-Dec-2011	Sound	Sound Start		71	68
22-Dec-2011	Sound	Sound Start		71	68
22-Dec-2011	Sound	Sound Start	Max	79	76
22-Dec-2011	Sound	Sound Start	Max	79	76
22-Dec-2011	Sound	Sound Stop		63	60
22-Dec-2011	Sound	Sound Stop		63	60
22-Dec-2011	Sound	Sound Stop	Max	72	69
22-Dec-2011	Sound	Sound Stop	Max	72	69