ZP21K5E-PFV

HFC, R-410A, 60 Hz, 1 - Phase, 208/230 V , Also Available with Variable Frequency Drives

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)	21300	29000		
Power (W):	2170	1405		
Current (Amps):	9.3	6.2		
EER(BTU/Wh):	9.85	20.65		
Mass Flow (lbs/hr):	313	356		
Sound Data @ 45 / 130				
Sound Power (dBA):	66 Avg	71 Max		
Vibration mils(peak-peak):	2.0 Avg	3.0 Max		
Record Date:	2020-10-20			

Mechanical

Displacement (in^3/Rev):	1.24
Displacement (ft^3/Hr):	
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

Refrigerant	Voltage	Phase	Frequency		Application
		Alternate Ap	plications		
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
Run Capacitor	014-0064-08	40.0	0.0	370	
Туре	Part No	Low MFD	High MFD	Volts	User Description
		Capacit			
	the low and high nom	inal voltago rangos		tor is approv	red
UL File No: UL File Date:			SA-2337 2003-12-16		
Box IP :			21		
RPM:			3500		
	for breaker & wire siz	e selection)(Amps			
RLA, MCC/1.4(use f	or contactor selection)(Amps):	14.3		
Max Operating Curr	rent (Amps):		12.0		
MCC (Amps):			20		
LRA Half Winding (A	Amps):				
LRA Low*(Amps):					
LRA High* (Amps):			58.3		
Overall compressor he	eight on Copeland Bran	nd Product's s Elecifi	chi mounting gror	nmets.	
Horse Power:					
Internal Free Volum	ne (in^3): 129.6				
Net Weight (lbs):	47.3				
Oil Recharge (oz):	21				
Initial Oil Charge (o	z): 25				
Discharge Size (in),	Type: 1 / 2 Stub				
Suction Size (in),Typ	pe: 3 / 4 Stub				
Mounting Height (in					

No data available in table

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND
1	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND
2	527-0044-15	1	SPACER - MOUNTING ASSM	
7	998-0510-38	1	VLV KIT 3/4"SWT/1 1/4-12UNC	SUCTION ROTALOCK
7	998-0510-98	1	VLV KIT 1/2"SWT/1-14UNC	DISCHARGE ROTALOCK
13	914-0037-12	1	RUN CAP KIT W/CLAMP	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	998-0034-01	1	ADAP KIT 3/4"SWT / 11/4 RL	SWEAT TO ROTALOCK ADAPTER KIT SUCTION
99	998-0034-07	1	ADAP KIT 11/4 RL / 3/4"SWT	ROTALOCK TO SWEAT ADAPTER KIT SUCTION
99	998-0034-15	1	SERV ADAPTOR KIT 1/2 STUB	SWEAT TO ROTALOCK ADAPTER KIT DISCHARGE

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	018-0094-00	Crankcase Heater, 240V, 40W	
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W	
Crankcase Heaters	018-0094-02	Crankcase Heater	
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	

Electrical Components

Electrical	Components
Part No: 071-0512-41	
Usage Description: Internal Protector	
Vendor Part Number	
15HM2458-102	
Vendor Name	
SENSATA	
Part No: 071-0642-04	
Usage Description: Internal Protector	
Vendor Part Number	
UP14HY5245	
Vendor Name	
UBUKATA	
Part No: 071-0642-14	Stator
Usage Description: Internal Protector	Part No: 546-5016-02
Vendor Part Number	Usage Description: Stator
UP14IY524	Resistance: +/-7%
Vendor Name	Start Wdg: 1.64
UBUKATA	Run Wdg: 1.30
Stator	Stator
Part No: 546-5127-01	Part No: 546-5131-02
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 1.64	Start Wdg: 1.83
Run Wdg: 1.30	Run Wdg: 1.50
Stator	Stator
Part No: 846-5016-02	Part No: 846-5016-63
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 1.64	Start Wdg: 1.64
Run Wdg: 1.30	Run Wdg: 1.30
Stator	Potential
Part No: 846-5127-01	Part No: 040-0166-37
Usage Description: Stator	Usage Description: Potential Relay

Resistance: +/-7%	Vendor Part Number	
Start Wdg: 1.64	RVA2AE6D-946	
Run Wdg: 1.30	Vendor Name	
	ELECTRICA	
Start Capacitor	Run Capacitor	
Part No: 014-0061-27	Part No: 014-0064-08	
Low MFD: 88.0	Low MFD: 40.0	
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

Family Series	
Z: Scroll	
Application Range	
P: A/C - R-410A/B	
Capacity	
21K: Capacity Multiplier-1000	
Oil Туре	
E: Polyol Ester	
Motor Type	
P: 1 Phase/Capacitor Run, Permanent Split Capacitor	
Motor Protection	
F: Internal Inherent Protection	
Voltage	

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application
No data available in tab	ble			
		Nomeno	lature	
		ZP21K5		

Date	Data Group	Field	Old Data	New Data
16-May-2005	Status	Status	Ρ	А
05-May-2005	Sound	Sound Stop	56	60
05-May-2005	Sound	Sound Stop Max	64	69
01-Oct-2008	RatingRefNo	RatingRefNo	05-619	08-1133
16-May-2005	RatingRefNo	RatingRefNo	04-553	05-619
13-May-2005	Rating	PubCode		Υ
21-Apr-2004	Rating	PubCode	PRE	0
15-Apr-2004	Rating	PubCode		0
19-Oct-2020	Perf	DataSheetNo	2.2fAC60-08-1133	2.2fAC60-20-505
10-Sep-2008	Mech	Mech Spec No	MS91-Z611	MS91-Z1271