ZR16K5E-PFV

HFC, R-407C, 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)			14650	20200
Power (W):			1490	975
Current (Amps):			6.5	4.4
EER(BTU/Wh):			9.8	20.7
Mass Flow (lbs/hr):			213	248
Sound Data @				
Sound Power (dBA):			68 Avg	73 Max
Vibration mils(peak-peak):			2.0 Avg	3.0 Max
Record Date:			2010-11-16	
		Mechanica	ı	
Displacement (in^3/Rev):	1.31			
Displacement (ft^3/Hr):				
Overall Length (in):	9.50			
Overall Width (in):	9.50			
Overall Height (in):	15.86			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			

Mounting Height (in):	16.08
Suction Size (in),Type:	3 / 4 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	25
Oil Recharge (oz):	19
Net Weight (lbs):	47.7
Internal Free Volume (in^3):	128
Horse Power:	1.3

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

LRA High* (Amps):	40.3
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	13
Max Operating Current (Amps):	9.0
RLA, MCC/1.4(use for contactor selection)(Amps):	9.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	8.3
RPM:	3500
Box IP:	21
UL File No:	SA-2337

UL File Date:

Capacitors

Туре	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-06	30.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
		Alternate App	lications		

Refrigerant	Voltage	Phase	Frequency	Application

No data available in table

^{*}Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

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		
13	914-0037-10	1	RUN CAP KIT W/CLAMP		
14	529-0060-24	1	POWER CABLE-MOLDED PLUG		

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	
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W	
Crankcase Heaters	018-0094-04	Crankcase Heater, 575V, 40W, 21.25" Lead Length	

Electrical Components

Electrical Com	ponents
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: 014-0064-06

Low MFD: 30.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Stator

Part No: 546-5251-16

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.61

Run Wdg: 1.74

Part No: 071-0512-18

Usage Description: Internal Protector

Vendor Part Number

15HM2395

<u>Vendor Name</u>

SENSATA

Nomenclature

ZR16K5E-PFV

Family Series

Z: Scroll

Application Range

R: A/C - R-22/407C/134a

Capacity

16K: 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						
HCFC R-22	60	1 Ø	208/230 V	R1		
		Nomen	clature			

ZR16K5E-PFV

Date	Data Group	Field	Old Data	New Data
12-May-2010	Rating	PubCode	PRE	Υ
13-Apr-2010	Rating	PubCode		PRE
17-Nov-2010	2 Pt Perf	Amp Cond 1	4.4	6.5
17-Nov-2010	2 Pt Perf	Amp Cond 2	6.5	4.4
17-Nov-2010	2 Pt Perf	Cap Cond 1	20200	14650
17-Nov-2010	2 Pt Perf	Cap Cond 2	14650	20200
17-Nov-2010	2 Pt Perf	EER Cond 1	20.7	9.8
17-Nov-2010	2 Pt Perf	EER Cond 2	9.8	20.7
17-Nov-2010	2 Pt Perf	MassFlow Cond 1	248	213
17-Nov-2010	2 Pt Perf	MassFlow Cond 2	213	248