ZR54K5E-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

Perform	ance	
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	50100	69400
Power (W):	4850	3250
Current (Amps):	21.8	14.8
EER(BTU/Wh):	10.3	21.4
Mass Flow (lbs/hr):	729	855
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-13	

Mechanical

Displacement (in^3/Rev):	4.40
Displacement (ft^3/Hr):	
Overall Length (in):	9.69
Overall Width (in):	9.69
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):	34			
Net Weight (lbs):	72.5			
Internal Free Volume (in^3):	179			
Horse Power:	4.5			
Overall compressor height on Co	opeland Brand	Product's s pecifiécal	nounting gro	mmet
LRA High* (Amps):			146.0	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			39.5	
Max Operating Current (Amp	s):		34.0	
RLA, MCC/1.4(use for contact	or selection)	(Amps):	28.2	
RLA, MCC/1.56(use for breake	er & wire size	selection)(Amps):	25.3	
RPM:			3500	
Box IP :			21	
UL File No:			SA-2337	
UL File Date:				
Low and High refer to the low ar	nd high nomir	al voltage ranges for	which the mo	otor is
		Capacitor	S	

Туре	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-27	80.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL
		Alternate App	olications		
Refrigerant	Voltage	Phase	Frequency	,	Application

approved.

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	
4	914-0037-38	1	RUN CAP KIT	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

Accessories

		Accessories
Category	Part Number	Description
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

Electrical Components

	Electrical Components
Part No: 071-0510-10	Stator
Usage Description: Internal Protector	Part No: 546-5010-03
Vendor Part Number	Usage Description: Stator

16HM143	Res	sistance: +/-7%	
Vendor Name	Sta	rt Wdg: 0.77	
SENSATA	Ru	n Wdg: 0.46	
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: 014-0064-27			
Low MFD: 80.0			
Type:Run Capacitor			
High MFD: 0.0			
Usage Description: Run Capacitor			
Volts: 370			

Nomenclature

Family Series		
Z: Scroll		
Application Range		
R: A/C - R-22/407C/134a		
Capacity		
54K: Capacity Multiplier-1000		
Oil Type		
E: Polyol Ester		
Motor Type		
P: 1 Phase/Capacitor Run, Permane	nt Split Capacitor	
Motor Protection		
F: Internal Inherent Protection		
Voltage		
V: 60Hz (208/230-1) 50Hz (-)		

Miscellaneous

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	60	1 Ø	208/230 V	R1

Nomenclature

ZR54K5E-PFV

Date	Data Group	Field	Old Data	New Data
13-Apr-2010	Rating	PubCode		Y
17-Nov-2010	2 Pt Perf	Amp Cond 1	14.8	21.8
17-Nov-2010	2 Pt Perf	Amp Cond 2	21.8	14.8
17-Nov-2010	2 Pt Perf	Cap Cond 1	69400	50100
17-Nov-2010	2 Pt Perf	Cap Cond 2	50100	69400
17-Nov-2010	2 Pt Perf	EER Cond 1	21.4	10.3
17-Nov-2010	2 Pt Perf	EER Cond 2	10.3	21.4
17-Nov-2010	2 Pt Perf	MassFlow Cond 1	855	729
17-Nov-2010	2 Pt Perf	MassFlow Cond 2	729	855
17-Nov-2010	2 Pt Perf	Ret Gas Cond 1	70	65