ZR54K5E-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 460 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)	53500	69400		
Power (W):	4740	3140		
Current (Amps):	6.8	5.1		
EER(BTU/Wh):	11.3	22.1		
Mass Flow (lbs/hr):	785	889		
Sound Data @ 45 / 130				
Sound Power (dBA):	73 Avg	78 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

R-22 HCFC	Voltage 380/420 460	Phase 3 3	Frequency 50 60	Air Conditioning Air Conditioning
	_			
Refrigerant	Voltage	Phase	Frequency	/ Application
				/ Application
		Alternate Applic	ations	
No data available in table				
Type Part No	Low MFD	High MFD	Volts	User Description
		Capacitors	•	
Low and High refer to the low	and high nomina	al voltage ranges for	which the m	otor is approved.
UL File Date:				
UL File No:			SA-2337	
Box IP :			21	
RPM:			3500	
RLA, MCC/1.56(use for brea	ıker & wire size	selection)(Amps):	7.1	
RLA, MCC/1.4(use for conta		Amps):	7.9	
Max Operating Current (Am	nps):		10.0	
MCC (Amps):			11	
LRA Low*(Amps): LRA Half Winding (Amps):				
LRA High* (Amps):			52.0	
Overall compressor height on	Copeland Brand	Product's specifical		mmets.
Horse Power:	4.5			
Internal Free Volume (in^3)	: 193			
Net Weight (lbs):	68.3			
Oil Recharge (oz):	34			
Initial Oil Charge (oz):	42			
Discharge Size (in),Type:	1 / 2 Stub			
Suction Size (in),Type:	7 / 8 Stub			

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	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

Accessories

Accessories				
Category	Part Number	Description		
(1) Variable Frequency Drive	EVH-344009- R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-344009- R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-344009- R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-344009- R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1		
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		

Electrical Components

Usage Description: Internal Protector

Electrical Components

Stator Part No: 546-2090-00

Vendor Part Number	Usage Description: Stator
34HM513	Resistance: +/-7%
Vendor Name	Start Wdg: 3.20
SENSATA	Run Wdg: 0.00

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	
I: 3 Phase	
Motor Protection	
F: Internal Inherent Protection	
Voltage	

Miscellaneous

		Alternate Ap	plication	
Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	3 Ø	380/420 V	R1 AC
HFC R-407C	60	3 Ø	460 V	R1 AC
<u>HFC R-407C</u>	50	3 Ø	380/420 V	R1 AC
		Nomenc	lature	
		<u>ZR54K5</u>	<u>-TFD</u>	
Date	Data Group	Field	Old Data	New Data
3-Oct-2015	Rating	PubCo	de	Y