ZR54K5E-TF5

HCFC, R-22, 60 Hz, 3 - Phase, 200/230 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)	53500	69400		
Power (W):	4740	3140		
Current (Amps):	13.55	10.15		
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

Staction Size (in), Type:7 / 8 StubDischarge Size (in), Type:7 / 8 StubInitial Oll Charge (oc):42Oil Recharge (oc):34Net Weight (lbs):68.4Internal Free Volume (n^3):193Horse Power:4.5Verall compressor height on Complement Brand Product's #geefreductionItRA High* (Amps):114.0ItRA High* (Amps):114.0Red Low* (Amps):124.0Red Low* (Amps):124.0ItRA High* (Amps):124.0Red Low* (Amps):124.0Red Low* (Amps):124.0TypePart NMore Size (ample Ample A					
Discharge Size (in), Type:1/2 StubeInitial Oli Charge Coz::2Oli Recharge Coz::3Oli Recharge Coz::34Net Weight (ibe)::38Horse Power::39Horse Power::4Ra Hight (Amps):13Vertall compressor height to bottom Brand Powers14/0Ra Hight (Amps):14/0Ra Hight (Amps):15/0Ra Hight (Amps):15/0Ra Hight (Amps):15/0Ra Hight (Amps):15/0Ra Hight (Amps):15/0Ra Hight (Amps):16/0It I Fie Net:IsoconCurrent (Ible	Mounting Height (in):	17.17			
niniai Oil Charge (oz): Aliniai Oil Charge (oz): Base and High (lbs): Horse Power: Harse Power:	Suction Size (in),Type:	7 / 8 Stub			
Oil Racharge (oz):34Net Weight (lbs):68.4Internal Free Volume (in^ 3):193Horse Power:4.5Werall compressor height on Seven Werall Brand Werze Werall Brand Werze Werall Brand Werze We	Discharge Size (in),Type:	1 / 2 Stub			
Net Weight (lbs):68.4Internal Free Volume (in ^3):193Horse Power:4.5Kak High (Amps):114.0LRA High (Amps):114.0LRA Low'(Amps):114.0LRA Low'(Amps):114.0RRA Corrent (Amps):114.0RRA, MCC/1.4(use for orrent (Amps):16.0RIA, MCC/1.5(cluse for breaker & wire size selection)(Amps):16.0RRA, MCC/1.5(cluse for breaker & wire size selection)(Amps):15.4RRA, MCC/1.5(cluse for breaker & wire size selection)(Amps):15.4RIA, MCC/1.5(cluse for breaker & break	Initial Oil Charge (oz):	42			
Internal Free Volume (in^3): 193 Horse Power: 4.5 Verall compressor height or Voluce's specifieds/volume grommets. IRA High 'Amps): IRA Low'(Amps): IRA Low'(Amps): IRA High 'Young): IRA High Vinding (Amps): IRA High Winding table): IRA A Governing Current (Amps): IRA, MCC/1.4(use for conter selection)(Amps): IRA, MCC/1.	Oil Recharge (oz):	34			
Harse Power: 4.5 Kak High * (Argo): 14.0 Kak High * (Argo): 14.0 Kak Law*(Amgs): 14.0 Kak Haff Wind (J Kamgs): 24.0 Kak Add CArgo): 24.0	Net Weight (lbs):	68.4			
Arrian Compressor height on Copelland Brand Product's specifiedal LRA High* (Amps): 1140 LRA High* (Amps): 1140 LRA Haff Winding (Amps): 24 Max Operating (Amps): 180 Max Operating (Amps): 180 RLA, MCC/1.4 (use for compressor beletion)(Amps): 171 RLA, MCC/1.4 (use for compressor beletion)(Amps): 160 RPM: 500 Box IP : 500 Box IP : 500 UL File Not: 520 UL File Not: 520 Type Part N Not MFD Atta available returber between a bight nominal veget and service range activation of the part of th	Internal Free Volume (in ^3	3): 193			
LRA High* (Amps): Italian in the intervention of the intervention	Horse Power:	4.5			
LRA Low"(Amps): Janowie wie wie wie wie wie wie wie wie wie	Overall compressor height o	n Copeland Brand F	Product's specifies	nounting gro	ommets.
LRA Half Winding (Amps): 24 Max Operating (Amps): 18.0 Max Operating (Amps): 18.0 RLA, MCC/1.4(use for control selection)(Amps): 15.4 RLP, MCC/1.5(use for low intersize selection)(Amps): 15.4 RPM: 2 Box IP: 2 UL File No: 50.2 UL File No: 5.4.2337 VUL File Date: 5.4.2337 Type Part N May More Description terrate Application terrate Application terrate Application Application Solution terrate Application Solution terrate Application terrate Application Solution terrate Application Solution terrate	LRA High* (Amps):			114.0	
MCC (Amps):	LRA Low*(Amps):				
Max Operating Current (Amps): In 18.0 RLA, MCC/1.4(use for tense selection)(Amps) 17.1 RLA, MCC/1.5(use for tense selection)(Amps) 15.4 RPM:	LRA Half Winding (Amps):	:			
RLA, MCC/1.4 (use for contactor selection) (Amp) 17.1 RLA, MCC/1.5 (use for boots is size size size size size size size	MCC (Amps):			24	
RLA, MCC/1.56 (use for breaker & wire size selection) (Amps) 15.4 RPM: 3500 Box IP: 21 UL File No: 5A-2337 UL File Date: SA-2337 ov and High refer to the high nominal voltage ranges for year by the motor is approximate to the motor is app	Max Operating Current (Amps):			18.0	
RPM: 3500 Box IP : 21 UL File No: 5A-2337 UL File Date: SA-2337 ow and High refer to the bigh nominal Veger anges for example. SA-2337 Type Pat No Low MFD Mag MFD Volts Description Type Pat No Low MFD Mg MFD Volts Description No data available in table Sternate Application Sternate Application Application Refigerant Voltage Phase Frequency Application R-22 HCFC 20/220 3 So ArcOnditioning	RLA, MCC/1.4(use for cont	tactor selection)(A	(mps):	17.1	
Box IP: 21 UL File No: SA-2337 UL File Date: SA-2337 ov and High rot to the work of the	RLA, MCC/1.56(use for bre	aker & wire size s	election)(Amps):	15.4	
UL File No: SA-2337 UL File Date: SA-2337 ov and High refer to the Low and high nominal Voltage ranges for Volta	RPM:			3500	
VI File Date: Capacitors Type Part No Low MFD Volts User Description Type Part No Low MFD Volts User Description Capacitors Set Fragerant Voltage Phase Frequency Application R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning	Box IP :			21	
Capacitors Type Part No High MFD Volts Description No data available in table Frequency Application Refrigerant Voltsge Phase Frequency Application R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning	UL File No:			SA-2337	
Type Part No Low MFD High MFD Volts User Description No data available in table Iternate Applications Refrigerant Voltage Phase Frequency Application R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning	UL File Date:				
TypePart NoLow MFDHigh MFDVoltsUser DescriptionNo data available in tableInternate ApplicationsRefrigerantVoltagePhaseFrequencyApplicationR-22 HCFC20/220350Air ConditioningR-407C HFC20/220350Air Conditioning	ow and High refer to the lo	w and high nomina	l voltage ranges for	which the m	notor is approved.
No data available in table Alternate Applications Refrigerant Voltage Phase Frequency Application R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning			Capacitors	;	
Alternate Applications Refrigerant Voltage Phase Frequency Application R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning	Type Part No	Low MFD	High MFD	Volts	User Description
RefrigerantVoltagePhaseFrequencyApplicationR-22 HCFC200/220350Air ConditioningR-407C HFC200/220350Air Conditioning	No data available in table				
R-22 HCFC 200/220 3 50 Air Conditioning R-407C HFC 200/220 3 50 Air Conditioning			Alternate Applic	ations	
R-407C HFC 200/220 3 50 Air Conditioning	Refrigerant	Voltage	Phase	Frequenc	y Application
	R-22 HCFC	200/220	3	50	Air Conditioning
R-407C HFC 200/230 3 60 Air Conditioning	R-407C HFC	200/220	3	50	Air Conditioning
	R-407C HFC	200/230	3	60	Air Conditioning

Service Parts

Component 918-0041-00	Quantity 1	Description HEATER-CRANKCASE	Comment 240V 40W WRAP AROUND
918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
527-0116-00	1	SPACER-MOUNTING ASSM	
529-0060-24	1	POWER CABLE-MOLDED PLUG	
	527-0116-00	527-0116-00 1	527-0116-00 1 SPACER-MOUNTING ASSM

Accessories

Accessories			
Category	Part Number	Description	
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options,	
Frequency Drive	E20ENN	Frame 2	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link	
Frequency Drive	R54BDB	Choke, With Bypass, Frame H3X	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link	
Frequency Drive	R21BDB	Choke, With Bypass, Frame H2S	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link	
Frequency Drive	R54BDN	Choke, No Options, Frame 2	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link	
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 2	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link	
Frequency Drive	R21BDN	Choke, No Options, Frame 2	
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link	
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 2	
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No	
Frequency Drive	E20EFN	Options, Frame 2	
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI filter,	
Frequency Drive	N20MFN	No Options, Frame 2	
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No Options,	
Frequency Drive	N20MNN	Frame 2	

Electrical Components					
2090-07					
tion: Stator					
-7%					
8					
)					

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

Miscellaneous

		Alternate A	pplication	
Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	3 Ø	200/220 V	R1 AC
<u>HFC R-407C</u>	50	3 Ø	200/220 V	R1 AC
HFC R-407C	60	3 Ø	200/230 V	R1 AC

Nomenclature

ZR54K5E-TF5

Date	Data Group	Field	Old Data	New Data	