ZR108KCE-TF5

HFC, R-407C, 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

		Performanc	е	
Evaporator Temp. (°F)			45	35
Condensing Temp. (°F)			130	120
Return Gas Temp. (°F)			65	55
Liquid Temp. (°F)			115	105
Capacity (BTU/hr)			106000	91200
Power (W):			9220	8110
Current (Amps):			28	25.4
EER(BTU/Wh):			11.5	11.25
Mass Flow (lbs/hr):			1545	1275
Sound Data @				
Sound Power (dBA):			80 Avg	85 Max
Vibration mils(peak-peak):			3.0 Avg	4.0 Max
Record Date:			2017-03-22	
		Mechanica	I	
Displacement (in^3/Rev):	8.72			
Displacement (ft^3/Hr):				
Overall Length (in):	10.38			
Overall Width (in):	11.23			
Overall Height (in):	21.00			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			

Mounting Height (in):	21.75
Suction Size (in),Type:	1 3 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	110
Oil Recharge (oz):	106
Net Weight (lbs):	132.0
Internal Free Volume (in^3):	809
Horse Power:	9.0

*Overall compressor height on Copeland Brand Product's **plecifiech** mounting grommets.

LRA High* (Amps):	225.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	47
Max Operating Current (Amps):	33.6
RLA, MCC/1.4(use for contactor selection)(Amps):	33.6
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	30.1
RPM:	3500
Box IP:	21
UL File No:	SA-2337
UL File Date:	1996-09-27

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

Capacitors

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No data available in table

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	200/220	3	50	Air Conditioning
R-134a HFC	200/230	3	60	Air Conditioning
R-407C HFC	200/220	3	50	Air Conditioning

Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
1	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
1	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
1	918-0047-02	1	HEATER-CRANKCASE	480V 90W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
11	998-0010-00	1	SIGHTGLASS KIT	
13	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK
13	998-0034-04	1	ADAP KIT 13/8"SWT / 13/4 RL	SUCTION SWEAT TO ROTALOCK
13	998-0034-07	1	ADAP KIT 11/4 RL / 3/4"SWT	DISCHARGE ROTALOCK TO SWEAT
13	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	DISCHARGE ROTALOCK TO SWEAT
13	998-0034-10	1	ADAP KIT 13/4 RL / 11/8"SWT	SUCTION ROTALOCK TO SWEAT

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322048- E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Pro, IP20, Standard, No Options, Frame 4
(1) Variable Frequency Drive	EVM-322048- N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Basic, IP20, Standard, No Options, Frame 4
(1) Variable Frequency Drive	EVM-322048- N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Basic, IP20, With add on EMI filter, No Options, Frame 4
(1) Variable Frequency Drive	EVM-322048- E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Pro, IP20, With add on EMI filter, No Options, Frame 4
(1) Variable Frequency Drive	EVH-322048- R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 3

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322048- R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048- R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048- R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048- R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S

Electrical Components

Electrical Components					
Part No: 071-0505-27	Stator				
Usage Description: Internal Protector	Part No: 546-2081-26				
Vendor Part Number	Usage Description: Stator				
32HM596-124	Resistance: +/-7%				
<u>Vendor Name</u>	Start Wdg: 0.34				
SENSATA	Run Wdg: 0.00				

Nomenclature

ZR108KCE-TF	-5
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Family Series

Z: Scroll

Application Range

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

Capacity

108K: Capacity Multiplier-1000

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

Miscellaneous

Alternate Application					
Refrigerant	Freq	Phase	Voltage	Application	
<u>HFC R-134a</u>	50	3 Ø	200/220 V	R1 AC	
HFC R-134a	60	3 Ø	200/230 V	R1 AC	
HFC R-407C	50	3 Ø	200/220 V	R1 AC	

Nomenclature

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Date	Data Group	Field	Old Data	New Data
07-Feb-2007	Sound	Discharge Pulse Ave	3	0
07-Feb-2007	Sound	Vibration Max	4.5	4
18-Jul-2005	Sound	Vibration Ave	2.5	3
18-Jul-2005	Sound	Vibration Max	3.5	4.5
09-Jan-2003	Sound	Sound Start	0	83
09-Jan-2003	Sound	Sound Start Max	0	91
09-Jan-2003	Sound	Sound Stop	0	75
09-Jan-2003	Sound	Sound Stop Max	0	83
20-Jul-2007	RatingRefNo	RatingRefNo	04-767	07-595
24-Sep-2004	RatingRefNo	RatingRefNo	01-929	04-767