ZP120KCE-TF5

HFC, R-410A, 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

Performa	nce	
Evaporator Temp. (°F)	45	35
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	55
Liquid Temp. (°F)	115	105
Capacity (BTU/hr)	123000	109000
Power (W):	11100	9760
Current (Amps):	32.8	29.8
EER(BTU/Wh):	11.1	11.2
Mass Flow (lbs/hr):	1815	1525
Sound Data @		
Sound Power (dBA):	79 Avg	84 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2019-11-15	

Mechanical

Displacement (in^3/Rev):	6.93
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):	135.0			
Internal Free Volume (in^3)	: 809			
Horse Power:				
*Overall compressor height on	Copeland Brand Pro	oduct's s elecifiical i	nounting grom	nets.
LRA High* (Amps):			239.0	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			52	
Max Operating Current (An	nps):		44.0	
RLA, MCC/1.4(use for conta	actor selection)(Am	ıps):	37.1	
RLA, MCC/1.56(use for brea	aker & wire size sel	ection)(Amps):	33.3	
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 v	oltage ranges for	which the moto	or is approved.
		Capacitors	;	
Type Part No	Low MFD	High MFD	Volts	User Description
No data available in table				
		Alternate Applic	ations	
Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	200/220	3	50	Air Conditioning

			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	
9	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	DISCHARGE ROTALOCK
11	998-0010-00	1	SIGHTGLASS KIT	
14	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK
14	998-0034-04	1	ADAP KIT 13/8"SWT / 13/4 RL	SUCTION SWEAT TO ROTALOCK
14	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	DISCHARGE ROTALOCK TO SWEAT
14	998-0034-13	1	ADPTR 13/4-12 TO 13/8 ID	SUCTION ROTALOCK TO SWEAT

Accessories

		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
(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

Category	Part Number	Description
(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: 071-0505-33	Stator
Usage Description: Internal Protector	Part No: 546-2081-30
Vendor Part Number	Usage Description: Stator
32HM1501	Resistance: +/-7%
Vendor Name	Start Wdg: 0.31
SENSATA	Run Wdg: 0.00

Nomenclature

Family Series	
Z: Scroll	
Application Range	
P: A/C - R-410A/B	
Capacity	
120K: Capacity Multiplier-1000	
Oil Type	
E: Polyol Ester	
Motor Type	
T: 3 Phase	
Motor Protection	
F: Internal Inherent Protection	
Voltage	
5: 60Hz (200/230-3) 50Hz (200/220-3)	

Miscellaneous

Alternate Application				
frigerant	Freq	Phase	Voltage	Application
<u> R-410A</u>	50	3 Ø	200/220 V	R1 AC
		Nomencla	ture	
		<u>ZP120KCE</u>	<u>-TF5</u>	
e	Data Group	Field	Old Data	New Data
Jul-2002	UL	CSAFileNo		LR3104C
Jul-2002	UL	ULFileDate	1/1/1900	9/27/96
Jul-2002	UL	ULFileNo		SA2337
Jun-2006	Sound	Sound Ave	80	79
Jun-2006	Sound	Sound Max	85	84
Jul-2005	Sound	Vibration Ave	2.5	3
Jul-2005	Sound	Vibration Max	3.5	4.5
Oct-2002	Sound	Sound Start	0	83
Oct-2002	Sound	Sound Start Max	0	91
Oct-2002	Sound	Sound Stop	0	75