ZP90KCE-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

Performance			
Evaporator Temp. (°F)	45	35	
Condensing Temp. (°F)	130	120	
Return Gas Temp. (°F)	65	55	
Liquid Temp. (°F)	115	105	
Capacity (BTU/hr)	90500	80000	
Power (W):	8350	7450	
Current (Amps):	26.3	24	
EER(BTU/Wh):	10.8	10.8	
Mass Flow (lbs/hr):	1340	1120	
Sound Data @			
Sound Power (dBA):	77 Avg	82 Max	
Vibration mils(peak-peak):	2.5 Avg	4.0 Max	
Record Date:	2019-11-15		

IVI	ec	ha	nı	cal

Displacement (in^3/Rev):	5.14
Displacement (ft^3/Hr):	
Overall Length (in):	10.38
Overall Width (in):	11.23
Overall Height (in):	18.75
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Refrigerant	Voltage	Phase	Frequency	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 nominal v	oltage ranges for	which the moto	r is approved.
UL File Date:			1996-09-27	
UL File No:			SA-2337	
Box IP :			21	
RPM:	aker & wire size ser	ection/(Amps).	3500	
RLA, MCC/1.56(use for brea			29.5	
Max Operating Current (An RLA, MCC/1.4(use for conta			32.9	
MCC (Amps):			46 36.0	
LRA Half Winding (Amps):			16	
LRA Low*(Amps):				
LRA High* (Amps):			195.0	
Overall compressor height on	Copeland Brand Pro	oduct's s glecififica li	nounting gromr	nets.
Horse Power:				
Internal Free Volume (in^3)): 639			
Net Weight (lbs):	127.0			
Oil Recharge (oz):	81			
Initial Oil Charge (oz):	85			
Discharge Size (in),Type:	7 / 8 Stub			
Suction Size (in),Type:	1 1 / 8 Stub			

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	
15	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	

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		
(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		

Category	Part Number	Description
(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: 071-0519-33	Stator			
Usage Description: Internal Protector	Part No: 546-2081-43			
Vendor Part Number	Usage Description: Stator			
35HM409	Resistance: +/-7%			
Vendor Name	Start Wdg: 0.40			
Т. I.	Run Wdg: 0.00			

Nomenclature

Family Series	
Z: Scroll	
Application Range	
P: A/C - R-410A/B	
Capacity	
90K: 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					
Refrigerant	Freq	Phase	Voltage	Application	

Refrigerant	Freq	Phase Nomenclat	Voltage ure	Application	
ZP90KCE-TF5					
Date	Data Group	Field	Old Data	New Data	
24-Nov-2003	Status	Status	Ρ	А	
03-Sep-2003	Status	Status	А	Р	
22-Feb-2011	Sound	Sound Max	79	82	
01-May-2008	Sound	Sound Ave	74	77	
22-Jun-2006	Sound	Sound Ave	77	74	
22-Jun-2006	Sound	Sound Max	82	79	
18-Jul-2005	Sound	Vibration Max	3.5	4	
09-Jul-2010	RatingRefNo	RatingRefNo	03-719	10-511	
10-Nov-2003	RatingRefNo	RatingRefNo	03-607	03-719	
15-Jul-2005	Rating	PubCode		Υ	