ZP103KCE-TFD

HFC, R-410A, 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

		Performanc	e	
Evaporator Temp. (°F)			45	35
Condensing Temp. (°F)			130	120
Return Gas Temp. (°F)			65	55
Liquid Temp. (°F)			115	105
Capacity (BTU/hr)			105000	93000
Power (W):			9550	8450
Current (Amps):			14.3	13.2
EER(BTU/Wh):			11	11
Mass Flow (lbs/hr):			1550	1300
Sound Data @				
Sound Power (dBA):			77 Avg	82 Max
Vibration mils(peak-peak):			3.0 Avg	4.5 Max
Record Date:			2019-11-15	
		Mechanica	ı	
Displacement (in^3/Rev):	5.88			
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:

 ${}^*\text{Overall compressor height on Copeland Brand Product's } {}_{\textbf{xlecified}} \textbf{m} \textbf{ounting grommets}.$

LRA High* (Amps):	114.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	26
Max Operating Current (Amps):	21.0
RLA, MCC/1.4(use for contactor selection)(Amps):	18.6
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	16.7
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

	Туре	Part No	Low MFD	High MFD	Volts	User Description
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No data available in table

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	380/420	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

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-344023- E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@23A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344023- N20MNN	EVM, 3Ø, 380-480v, Output 380-480v@23A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344023- N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@23A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344023- E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@23A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344023- R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344023- R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344023- R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344023- R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344023- R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S

Electrical Components

Electrical Components

Part No: 071-0519-36

Usage Description: Internal Protector

Vendor Part Number

35HM531

Vendor Name

SENSATA

Stator

Part No: 546-2111-01

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.47

Run Wdg: 0.00

Stator

Part No: 546-2081-46

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.37

Run Wdg: 0.00

Nomenclature

ZP103KCE-TFD

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Capacity

103K: Capacity Multiplier-1000

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

D: 60Hz (460-3) 50Hz (380/420-3)

Miscellaneous

		Alternate Ap	pplication	
Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	380/420 V	R1 AC
		Nomenc	lature	
		<u>ZP103KC</u>	E-TFD	
Date	Data Group	Field	Old Data	New Data
16-May-2007	Sound	Sound Ave	76	77
16-May-2007	Sound	Sound Max	81	82
22-Jun-2006	Sound	Sound Ave	77	76
22-Jun-2006	Sound	Sound Max	82	81
18-Jul-2005	Sound	Vibration Ave	2.5	3
18-Jul-2005	Sound	Vibration Max	3.5	4.5
02-Dec-2002	Sound	Sound Ave	80	77
02-Dec-2002	Sound	Sound Max	85	82
02-Dec-2002	RatingRefNo	RatingRefNo	01-581	02-849
15-Nov-2019	Rating	PubCode	N	Α