ZP122KCE-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

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)	124000	110500
Power (W):	11000	9700
Current (Amps):	16.85	15.4
EER(BTU/Wh):	11.3	11.4
Mass Flow (lbs/hr):	1800	1520
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2017-11-07	

Mechanical	
Displacement (in^3/Rev):	6.85
Displacement (ft^3/Hr):	
Overall Length (in):	11.70
Overall Width (in):	10.33
Overall Height (in):	22.00
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	22.75
Suction Size (in),Type:	1 1 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	85
Oil Recharge (oz):	81
Net Weight (lbs):	107.6
Internal Free Volume (in^3):	440
Horse Power:	

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

Electrical

LRA High* (Amps):	140.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	25
Max Operating Current (Amps):	21.6
RLA, MCC/1.4(use for contactor selection)(Amps):	17.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	16.0
RPM:	3500
Box IP :	21
UL File No:	SA2337
UL File Date:	2012-06-20

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

Capacitors

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

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	380/420	3	50	Air Conditioning (400v)
R-410A HFC	380/420	3	50	Air Conditioning

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
7	998-7024-00	1	HEARTER JUNCTION BOX KIT	
14	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK
14	998-0034-03	1	ADAP KIT 11/8"SWT / 13/4 RL	SUCTION SWEAT TO ROTALOCK
14	998-0034-10	1	ADAP KIT 13/4 RL / 11/8"SWT	SUCTION ROTALOCK TO SWEAT
15	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	527-0221-00	1	SPACER-MOUNTING ASSM	
99	529-0099-00	1	POWER CABLE-MOLDED PLUG	
99	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
99	921-0227-00	1	CONNECTOR BLOCK KIT	

Accessories

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	EVH-344023-R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(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-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-R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344023-R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@23A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H2S
(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

Category	Part Number	Description
(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-N20MNN	EVM, 3Ø, 380-480v, Output 380-480v@23A, Basic, IP20, Standard, No Options, Frame 2

Electrical Components

Electrical Components

Part No: 071-0519-54

Usage Description: Internal Protector

Vendor Part Number

35HM547

Vendor Name

SENSATA

Stator

Part No: 546-2142-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.17

Run Wdg: 0.00

Nomenclature

ZP122KCE-TFD

Family Series

Z: Scroll

Application Range

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

Capacity

122K: 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 Application

Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	380/420 V	R1 AC

Nomenclature

ZP122KCE-TFD

Date	Data Group	Field	Old Data	New Data
22-Feb-2013	Status	Status	P	A
02-Jan-2013	Sound	Sound Ave	79	77
02-Jan-2013	Sound	Sound Max	84	82
02-Jan-2013	RatingRefNo	RatingRefNo	11-741	12-3493
22-Feb-2013	Rating	PubCode		Y
24-Jul-2012	Rating	PubCode	Y	PRE
26-Aug-2011	Rating	PubCode		PRE
23-Mar-2017	2 Pt Perf	MassFlow Cond 1	1830	1800
23-Mar-2017	2 Pt Perf	MassFlow Cond 2	1540	1520
05-Feb-2013	2 Pt Perf	Amp Cond 1	16.95	16.85