ZPS104KCE-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)	50	45
Condensing Temp. (°F)	115	130
Return Gas Temp. (°F)	70	65
Liquid Temp. (°F)	100	115
Capacity (BTU/hr)	128500	105500
Power (W):	7910	9400
Current (Amps):	12.65	14.3
EER(BTU/Wh):	16.25	11.2
Mass Flow (lbs/hr):	1705	1540
Sound Data @ 50 / 115		
Sound Power (dBA):	77 Avg	82 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2020-06-09	

Mechanical	
Displacement (in^3/Rev):	5.88
Displacement (ft^3/Hr):	714.5
Overall Length (in):	11.31
Overall Width (in):	10.33
Overall Height (in):	22.47
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):	107.0
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	130.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	23.1
Max Operating Current (Amps):	18.2
RLA, MCC/1.4(use for contactor selection)(Amps):	16.5
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	14.8
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	A/C, 67% Load Of Compressor Model
R-410A HFC	460	3	60	A/C, 67% Load Of Compressor Model
R-410A HFC	380/420	3	50	Air Conditioning

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0221-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	3-PIN MOLDED PLUG
99	529-0138-01	1	CABLE-POWER ASSM	2-PIN MODULATION PLUG
99	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
99	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
99	921-0227-00	1	CONNECTOR BLOCK KIT	
99	998-0010-00	1	SIGHTGLASS KIT	
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK

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	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
(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

Category	Part Number	Description
(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: 071-0519-61

Usage Description: Internal Protector

Vendor Part Number

35HM554

Vendor Name

SENSATA

Stator

Part No: 546-2142-01

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.38

Run Wdg: 0.00

Nomenclature

ZPS104KCE-TFD

Family Series

Z: Scroll

Application Range

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

Modulation

S: Two Step

Capacity

104K: 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 A6
HFC R-410A	60	3 Ø	460 V	R1 A6
HFC R-410A	50	3 Ø	380/420 V	R1 AC

Nomenclature

ZPS104KCE-TFD

Date	Data Group	Field	Old Data	New Data
27-Oct-2017	Rating	PubCode		Y
18-Jul-2017	Rating	PubCode		PRE
09-Nov-2016	Rating	PubCode		N