ZP61K5E-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	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	61500	83000
Power (W):	5750	3820
Current (Amps):	8.3	5.85
EER(BTU/Wh):	10.7	21.7
Mass Flow (lbs/hr):	905	1020
Sound Data @ 45 / 130		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-11-21	

Mechanical	
Displacement (in^3/Rev):	3.49
Displacement (ft^3/Hr):	
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	16.91
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	17.66
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	36
Net Weight (lbs):	77.2
Internal Free Volume (in^3):	204
Horse Power:	

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

Electrical

LRA High* (Amps):	66.1
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	12.8
Max Operating Current (Amps):	11.0
RLA, MCC/1.4(use for contactor selection)(Amps):	9.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	8.2
RPM:	3500
Box IP :	21
UL File No:	SA-2337
UL File Date:	2003-12-17

*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

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
7	998-0510-98	1	VLV KIT 1/2"SWT/1-14UNC	DISCHARGE ROTALOCK
8	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	SUCTION ROTALOCK
9	998-7026-00	1	HEATER JUNCTION BOX KIT	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	SWEAT TO ROTALOCK ADAPTER KIT SUCTION
99	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT SUCTION
99	998-0034-15	1	SERV ADAPTOR KIT 1/2 STUB	SWEAT TO ROTALOCK ADAPTER KIT DISCHARGE

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344012-R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
CoreSense	571-0066-00	CoreSenseTM Diagnostics Module (2 wire)
CoreSense	571-0066-01	CoreSense Diagnostics (Fixed Speed AC)
CoreSense	571-0067-00	CoreSenseTM Diagnostics Module (3 wire)
CoreSense	571-0067-01	CoreSense Diagnostics (Fixed Speed HP)
CoreSense	571-0072-00	CoreSense Diagnostics (Two Stage UT)
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length

Electrical Components

Electrical Components

Part No: 071-0672-01

Usage Description: Internal Protector

Vendor Part Number

34HM523

Vendor Name

SENSATA

Stator

Part No: 546-2090-46

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.59

Run Wdg: 1.83

Stator

Part No: 546-2090-40

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.52

Run Wdg: 0.00

Nomenclature

ZP61K5E-TFD

Family Series

Z: Scroll

Application Range

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

Capacity

61K: 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

ZP61K5E-TFD

Date	Data Group	Field	Old Data	New Data
11-Dec-2012	Status	Status	A	P
14-Apr-2011	Status	Status	P	A
11-Dec-2012	RatingRefNo	RatingRefNo	11-283	11-156
14-Apr-2011	RatingRefNo	RatingRefNo	11-156	11-283
19-Feb-2011	RatingRefNo	RatingRefNo	10-909	11-156
09-Oct-2015	Rating	PubCode		Y
18-Feb-2013	Rating	PubCode	PRE	Y
11-Oct-2010	Rating	PubCode		PRE
26-Feb-2010	Rating	PubCode		N
19-Dec-2010	Elec	Hi LRA	N/A	66.1