

# ZPS60K5E-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	115
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	100
Capacity (BTU/hr)	60900	74900
Power (W):	5690	4580
Current (Amps):	8.05	6.75
EER(BTU/Wh):	10.7	16.4
Mass Flow (lbs/hr):	897	997
Sound Data @ 45 / 130		
Sound Power (dBA):	72 Avg	77 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-02	
Mechanical		
Displacement (in^3/Rev):	3.40	
Displacement (ft^3/Hr):	412.6	
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	

<b>Mounting Height (in):</b>	17.66
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	36
<b>Net Weight (lbs):</b>	75.6
<b>Internal Free Volume (in^3):</b>	190.8
<b>Horse Power:</b>	

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

<b>LRA High* (Amps):</b>	66.1
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	13.2
<b>Max Operating Current (Amps):</b>	11.5
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	9.4
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	8.5
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337
<b>UL File Date:</b>	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	460	3	60	A/C, 67% Load Of Compressor Model
R-410A HFC	380/420	3	50	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
4	527-0116-00	1	SPACER-MOUNTING ASSM	
5	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
5	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
5	918-0041-02	1	HEATER-CRANKCASE	480V 40W WRAP AROUND
6	529-0060-24	1	POWER CABLE-MOLDED PLUG	3-PIN MOLDED PLUG
6	529-0138-01	1	CABLE-POWER ASSM	2-PIN MODULATION PLUG
99	998-0069-01	1	ADAPTER & SEAL KIT	
99	998-0230-00	1	CONDUIT ADAPTOR KIT 5/8	
99	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	SUCTION ROTALOCK VALVE MAY BE MOUNTED ON THE COMPRESSOR OR THE ACCUMULATOR
99	998-0510-98	1	VLV KIT 1/2"SWT /1-14UNC	DISCHARGE ROTALOCK

## 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
Crankcase Heaters	018-0096-06	Crankcase Heater, 240V, 40W, 31.75" Lead Length
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length

Category	Part Number	Description
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length

Electrical Components

Electrical Components	
Part No: 071-0672-01	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-2090-40
<u>Vendor Part Number</u>	Usage Description: Stator
34HM523	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 2.52
SENSATA	Run Wdg: 0.00

Nomenclature

ZPS60K5E-TFD
<b>Family Series</b>
<b>Z:</b> Scroll
<b>Application Range</b>
<b>P:</b> A/C - R-410A/B
<b>Modulation</b>
<b>S:</b> Two Step
<b>Capacity</b>
<b>60K:</b> Capacity Multiplier-1000
<b>Oil Type</b>
<b>E:</b> Polyol Ester
<b>Motor Type</b>
<b>T:</b> 3 Phase
<b>Motor Protection</b>
<b>F:</b> Internal Inherent Protection
<b>Voltage</b>
<b>D:</b> 60Hz (460-3) 50Hz (380/420-3)

## Miscellaneous

### Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
<a href="#">HFC R-410A</a>	60	3 Ø	460 V	R1 A6
<a href="#">HFC R-410A</a>	50	3 Ø	380/420 V	R1 A6
<a href="#">HFC R-410A</a>	50	3 Ø	380/420 V	R1 AC

### Nomenclature

[ZPS60K5E-TFD](#)

Date	Data Group	Field	Old Data	New Data
01-Jul-2011	Status	Status	P	A
01-Jul-2011	Status	Status	P	A
21-Apr-2011	Sound	Sound Ave		72
21-Apr-2011	Sound	Sound Max		77
21-Apr-2011	Sound	Sound Start		69
21-Apr-2011	Sound	Sound Start Max		77
21-Apr-2011	Sound	Sound Stop		63
21-Apr-2011	Sound	Sound Stop Max		71
21-Apr-2011	Sound	Vibration Ave		2
21-Apr-2011	Sound	Vibration Max		3