

# ZP61KCE-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	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	61500	76000
Power (W):	5700	4010
Current (Amps):	8.3	6.3
EER(BTU/Wh):	10.8	19
Mass Flow (lbs/hr):	910	945
Sound Data @		
Sound Power (dBA):	74 Avg	79 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2007-01-05	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	3.55	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	17.91	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	18.16
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	56
<b>Oil Recharge (oz):</b>	52
<b>Net Weight (lbs):</b>	88.8
<b>Internal Free Volume (in^3):</b>	274

**Horse Power:**

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

<b>LRA High* (Amps):</b>	62.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	15.2
<b>Max Operating Current (Amps):</b>	11.8
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	10.9
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	9.7
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	
<b>UL File Date:</b>	1993-07-26

\*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

Reference	Component	Quantity	Description	Comment
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W 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	998-7024-00	1	HEARTER JUNCTION BOX KIT	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	921-0235-00	1	CONNECTOR BLOCK KIT - SCROLL	
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

### Accessories

### Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-344012-E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@12A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344012-N20MNN	EVM, 3Ø, 380-480v, Output 380-480v@12A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344012-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@12A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-344012-E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@12A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-344012-R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@12A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344012-R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@12A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344012-R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@12A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344012-R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@12A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344012-R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@12A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1

Electrical Components

Electrical Components	
Part No: 071-0519-16	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
35HM254	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0572-06	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
UP181Y082-770	
<u>Vendor Name</u>	
UBUKATA	
Part No: 071-0613-09	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
34HM524	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0613-12	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-1209-14
<u>Vendor Part Number</u>	Usage Description: Stator
34HM527	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 2.75
SENSATA	Run Wdg: 0.00
<b>Stator</b>	<b>Stator</b>
Part No: 546-2011-04	Part No: 546-2011-27
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%

Start Wdg: 2.95

Run Wdg: 0.00

### Stator

Part No: 546-2011-28

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.95

Run Wdg: 0.00

### Stator

Part No: 546-2093-45

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.80

Run Wdg: 0.00

### Stator

Part No: 846-2011-28

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.95

Run Wdg: 0.00

Start Wdg: 2.95

Run Wdg: 0.00

### Stator

Part No: 546-2093-44

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.80

Run Wdg: 0.00

### Stator

Part No: 846-2011-27

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.95

Run Wdg: 0.00

## Nomenclature

ZP61KCE-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
<a href="#">HFC R-410A</a>	50	3 Ø	380/420 V	R1 AC

Nomenclature

[ZP61KCE-TFD](#)

Date	Data Group	Field	Old Data	New Data
01-Dec-2006	Status	Status	P	A
19-Dec-2006	RatingRefNo	RatingRefNo	06-962	06-976
01-Dec-2006	RatingRefNo	RatingRefNo	06-942	06-962
25-Oct-2006	RatingRefNo	RatingRefNo	06-781	06-942
30-Nov-2006	Rating	PubCode		Y
29-Aug-2006	Rating	PubCode		PRE
15-Aug-2009	Mech	CFH		430.81676
15-Aug-2009	Mech	Cu In Per Rev		3.545
15-Aug-2009	Mech	Init Oil Charge		56
15-Aug-2009	Mech	Rech Oil Charge		52