

# ZP36K5E-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)	36000	49000
Power (W):	3490	2290
Current (Amps):	5.15	3.85
EER(BTU/Wh):	10.3	21.4
Mass Flow (lbs/hr):	530	602
Sound Data @ 45 / 130		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2019-07-23	
Mechanical		
Displacement (in^3/Rev):	2.10	
Displacement (ft^3/Hr):		
Overall Length (in):	9.56	
Overall Width (in):	9.56	
Overall Height (in):	19.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	17.17
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	36
<b>Net Weight (lbs):</b>	64.3
<b>Internal Free Volume (in^3):</b>	224.5

#### Horse Power:

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

#### Electrical

<b>LRA High* (Amps):</b>	44.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	9.3
<b>Max Operating Current (Amps):</b>	7.00
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	6.6
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	6.0
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA-2337
<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	380/420	3	50	Air Conditioning

### 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	EVM-3447D6- E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6- R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVH-3447D6- R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6- R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6- R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6- R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H1S
(1) Variable Frequency Drive	EVM-3447D6- E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, With add on EMI filter, No Options, Frame 1

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, With add on EMI filter, No Options, Frame 1

Electrical Components

Electrical Components	
Part No: 071-0501-27	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
34HM223	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0501-29	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-2090-04
<u>Vendor Part Number</u>	Usage Description: Stator
34HM226	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 4.03
SENSATA	Run Wdg: 0.00
<b>Stator</b>	<b>Stator</b>
Part No: 546-2090-22	Part No: 546-2115-00
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 4.03	Start Wdg: 4.68
Run Wdg: 0.00	Run Wdg: 0.00

Nomenclature

ZP36K5E-TFD
<b>Family Series</b>
<b>Z:</b> Scroll
<b>Application Range</b>
<b>P:</b> A/C - R-410A/B
<b>Capacity</b>
<b>36K:</b> 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

[ZP36K5E-TFD](#)

Date	Data Group	Field	Old Data	New Data
16-Aug-2005	Status	Status	P	A
22-Jul-2005	Sound	Sound Start	68	69
22-Jul-2005	Sound	Sound Start Max	76	77
01-Jul-2005	Sound	Sound Stop	56	63
01-Jul-2005	Sound	Sound Stop Max	64	71
16-Aug-2005	RatingRefNo	RatingRefNo	04-1798	05-1030
15-Aug-2005	Rating	PubCode		Y
03-Nov-2004	Rating	PubCode		PRE
10-Sep-2008	Mech	Mech Spec No	MS91-Z657	MS91-Z1276
19-Sep-2005	Mech	Rech Oil Charge	34	38