# ZP49K5E-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)			50000	67000
Power (W):			4650	3090
Current (Amps):			6.5	4.65
EER(BTU/Wh):			10.75	21.7
Mass Flow (lbs/hr):			736	823
Sound Data @ 45 / 130				
Sound Power (dBA):			71 Avg	76 Max
Vibration mils(peak-peak):			2.0 Avg	3.0 Max
Record Date:			2017-03-01	
		Mechanica	I	
Displacement (in^3/Rev):	2.83			
Displacement (ft^3/Hr):				
Overall Length (in):	9.56			
Overall Width (in):	9.56			
Overall Height (in):	16.94			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			

Mounting Height (in):	17.17
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):	72.8
Internal Free Volume (in^3):	190.8

#### **Horse Power:**

 ${}^*\text{Overall compressor height on Copeland Brand Product's } {}_{\textbf{xlecified}} \textbf{m} \textbf{ounting grommets}.$ 

LRA High* (Amps):	52.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	11
Max Operating Current (Amps):	9.0
RLA, MCC/1.4(use for contactor selection)(Amps):	7.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	7.1
RPM:	3500
Box IP:	21
UL File No:	SA-2337
UL File Date:	2003-12-17

<sup>\*</sup>Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

## Capacitors

	Туре	Part No	Low MFD	High MFD	Volts	User Description
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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	EVH-344009- R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344009- R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344009- R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-344009- R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
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)

Category Part Number Description

**Electrical Components** 

## **Electrical Components**

Electrical C	omponents
Part No: 071-0501-55	
Usage Description: Internal Protector	
Vendor Part Number	
34HM513	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0501-57	
Usage Description: Internal Protector	
Vendor Part Number	
34HM515	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0572-03	
Usage Description: Internal Protector	
Vendor Part Number	
UP18KY142-770	
Vendor Name	
UBUKATA	
Part No: 071-0612-08	Stator
Usage Description: Internal Protector	Part No: 546-2090-00
Vendor Part Number	Usage Description: Stator
37HM220	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 3.20
SENSATA	Run Wdg: 0.00
Stator	Stator
Part No: 546-2090-24	Part No: 546-2112-02
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 3.20	Start Wdg: 3.48
Run Wdg: 0.00	Run Wdg: 0.00
Stator	Stator
Part No: 546-2115-13	Part No: 846-2115-13
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 3.70	Start Wdg: 3.70
Run Wdg: 0.00	Run Wdg: 0.00

## Nomenclature

ZP49K5E-TFD

**Family Series** 

Z: Scroll

**Application Range** 

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

Capacity

**49K:** 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					
		<u>ZP49K5</u>	E-TFD		

Date	Data Group	Field	Old Data	New Data
24-Mar-2009	Status	Status	Р	А
23-Mar-2009	Rating	PubCode		Υ
12-Nov-2008	Rating	PubCode		PRE
11-Mar-2009	Elec	Max OpCur	N/A	9.0
11-Mar-2009	Elec	MCC	12.1	11.0
11-Mar-2009	Elec	RLA	N/A	7.9
11-Dec-2012	2 Pt Perf	MassFlow Cond 1	737	736
11-Dec-2012	2 Pt Perf	MassFlow Cond 2	824	823

Date	Data Group	Field	Old Data	New Data
24-Mar-2009	2 Pt Perf	Amp Cond 1	6.4	6.5