

ZP49K6E-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	67600
Power (W):	4660	3090
Current (Amps):	6.6	4.8
EER(BTU/Wh):	10.7	21.9
Mass Flow (lbs/hr):	731	827
Sound Data @ 50 / 115		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-25	
Mechanical		
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):	72.2
Internal Free Volume (in^3):	191

Horse Power:

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

Electrical

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:	SA2337
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

Reference	Component	Quantity	Description	Comment
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
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
99	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT DISCHARGE
99	998-0230-00	1	CONDUIT ADAPTOR KIT 5/8	

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	971-0066-00	CoreSense™ Diagnostics Module (2-Wire Module, 1-Phase Only)
CoreSense	971-0067-00	CoreSense™ Diagnostics Module (3-Wire Module, 1-Phase Only)
Crankcase Heaters	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length

Category	Part Number	Description
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length

Electrical Components

Electrical Components	
Part No: 071-0612-08	Stator
Usage Description: Internal Protector	Part No: 546-2112-08
<u>Vendor Part Number</u>	Usage Description: Stator
37HM220	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 3.48
SENSATA	Run Wdg: 0.00

Nomenclature

ZP49K6E-TFD
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Capacity
49K: Capacity Multiplier-1000
Model Variation
6: Model Variation
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

Refrigerant	Freq	Phase Nomenclature	Voltage	Application
ZP49K6E-TFD				
Date	Data Group	Field	Old Data	New Data
13-Oct-2014	Status	Status	P	A
15-Jun-2014	Sound	Sound Start	63	69
15-Jun-2014	Sound	Sound Start Max	71	77
15-Jun-2014	Sound	Sound Stop	69	63
15-Jun-2014	Sound	Sound Stop Max	77	71
13-Oct-2014	Rating	PubCode		Y
20-Mar-2014	Rating	PubCode		PRE
15-Oct-2014	2 Pt Perf	Amp Cond 2	5.55	4.8
15-Oct-2014	2 Pt Perf	Cap Cond 2	61500	67600
15-Oct-2014	2 Pt Perf	EER Cond 2	16.25	21.9