ZPS49K5E-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)	49300	60600
Power (W):	4530	3730
Current (Amps):	6.4	5.4
EER(BTU/Wh):	10.9	16.25
Mass Flow (lbs/hr):	727	808
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-01	

Mechanical	
Displacement (in^3/Rev):	2.82
Displacement (ft^3/Hr):	342.7
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):	188.9
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):	11.9
Max Operating Current (Amps):	9.0
RLA, MCC/1.4(use for contactor selection)(Amps):	8.5
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	7.6
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	A/C, 67% Load Of Compressor Model
R-410A HFC	460	3	60	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-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

Category	Part Number	Description
(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
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
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length

Electrical Components

Electrical Components

Part No: 071-0501-55

Usage Description: Internal Protector

Vendor Part Number

34HM513

Vendor Name

SENSATA

Stator

Part No: 546-2090-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 3.20

Run Wdg: 0.00

Nomenclature

ZPS49K5E-TFD

Family Series

Z: Scroll

Application Range

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

Modulation

S: Two Step

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 A6
HFC R-410A	60	3 Ø	460 V	R1 A6
HFC R-410A	50	3 Ø	380/420 V	R1 AC

Nomenclature

ZPS49K5E-TFD

Date	Data Group	Field	Old Data	New Data
21-Jan-2011	Status	Status	P	A
21-Jan-2011	Status	Status	P	A
17-Feb-2012	Sound	Sound Ave	73	70
17-Feb-2012	Sound	Sound Max	78	75
17-Feb-2012	Sound	Sound Start	69	72
17-Feb-2012	Sound	Sound Start Max	77	80
21-Jan-2011	Sound	Sound Ave	72	73

Date	Data Group	Field	Old Data	New Data
21-Jan-2011	Sound	Sound Ave	72	73
21-Jan-2011	Sound	Sound Max	77	78