ZPS40K5E-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)	41200	51000			
Power (W):	3900	3200			
Current (Amps):	5.5	4.65			
EER(BTU/Wh):	10.55	15.9			
Mass Flow (lbs/hr):	607	679			
Sound Data @ 45 / 130					
Sound Power (dBA):	72 Avg	77 Max			
Vibration mils(peak-peak):	2.0 Avg	3.0 Max			
Record Date:	2017-03-22				
	Mechanical				

Displacement (in^3/Rev):	2.39
Displacement (ft^3/Hr):	290.0
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):	67.0
Internal Free Volume (in^3):	207.5

Horse Power:

 ${}^*\text{Overall compressor height on Copeland Brand Product's } \textbf{\textit{specifical}} \textbf{\textit{mounting grommets}}.$

LRA High* (Amps):	41.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	10
Max Operating Current (Amps):	8.0
RLA, MCC/1.4(use for contactor selection)(Amps):	7.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	6.4
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

No data available in table

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	460	3	60	A/C, 67% Load Of Compressor Model
R-410A HFC	380/420	3	50	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	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	

Category	Part Number	Description
(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
(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	Stator			
Usage Description: Internal Protector	Part No: 546-2090-02			
<u>Vendor Part Number</u>	Usage Description: Stator			
34HM223	Resistance: +/-7%			
<u>Vendor Name</u>	Start Wdg: 4.17			
SENSATA	Run Wdg: 0.00			

Nomenclature

Family Series

Z: Scroll

Application Range

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

Modulation

S: Two Step

Capacity

40K: 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	60	3 Ø	460 V	R1 A6
HFC R-410A	50	3 Ø	380/420 V	R1 A6
<u>HFC R-410A</u>	50	3 Ø	380/420 V	R1 AC

Nomenclature

ZPS40K5E-TFD

Date	Data Group	Field	Old Data	New Data
19-Feb-2011	Status	Status	Р	А
19-Feb-2011	Status	Status	Р	Α
20-Aug-2012	RatingRefNo	RatingRefNo	10-885	12-828
20-Aug-2012	RatingRefNo	RatingRefNo	10-886	12-827
18-Feb-2011	Rating	PubCode		Υ
19-Oct-2010	Rating	PubCode		PRE
27-May-2016	2 Pt Perf	Amp Cond 1	4.65	5.5
27-May-2016	2 Pt Perf	Amp Cond 2	5.5	4.65
27-May-2016	2 Pt Perf	Cap Cond 1	51000	41200
27-May-2016	2 Pt Perf	Cap Cond 2	41200	51000