ZP57K5E-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

Performa	nce	
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	57500	78000
Power (W):	5320	3550
Current (Amps):	7.6	5.5
EER(BTU/Wh):	10.8	22
Mass Flow (lbs/hr):	846	959
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	

Mechanical

Displacement (in^3/Rev):	3.26
Displacement (ft^3/Hr):	
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	16.91
Mounting Length (in):	7.50
Mounting Width (in):	7.50

R-410A HFC	38	0/420	3	50	Air Conditioning
Refrigerant	Vo	ltage	Phase	Frequency	Application
			Alternate Applic	ations	
No data availab	le in table				
Туре	Part No	Low MFD	High MFD	Volts	User Description
5.12		5	Capacitors		
	fer to the low ar	nd high nominal v	voltage ranges for		pr is approved.
UL File Date:				2003-12-17	
Box IP : UL File No:				21 SA-2337	
RPM:				3500	
	(use for breake	er & wire size se	lection)(Amps):	8.7	
RLA, MCC/1.4(use for contact	or selection)(An	nps):	9.7	
Max Operating	Current (Amp	s):		10.2	
MCC (Amps):				13.6	
LRA Half Wind	ing (Amps):				
LRA Low*(Amp	s):				
LRA High* (Am	ips):			66.1	
overall compress	sor height on Co	opeland Brand Pr	oduct's s Elecifiéc al	nounting grom	mets.
Horse Power:					
Internal Free Vo	olume (in^3):	204			
Net Weight (lb		75.6			
Oil Recharge (o		36			
Initial Oil Charg		42			
Suction Size (ir Discharge Size		7 / 8 Stub			
	· -				

			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-344012- R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
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)
Crankcase Heaters	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length
Crankcase Heaters	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length

Electrical Components

Components
Stator
Part No: 546-2090-40
Usage Description: Stator
Resistance: +/-7%
Start Wdg: 2.52
Run Wdg: 0.00

Nomenclature

ZP57K5E-TFD

Family Series Z: Scroll Application Range P: A/C - R-410A/B

Capacity		
57K: 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
<u>HFC R-410A</u>	50	3 Ø	380/420 V	R1 AC
		Nomencla	ature	
		<u>ZP57K5E-</u>	<u>-TFD</u>	
Date	Data Group	Field	Old Da	ta New Data
18-Jul-2011	Status	Status	Р	А
18-Jul-2011	RatingRefNo	RatingRefN	lo 11-269	11-502
11-Apr-2011	RatingRefNo	RatingRefN	lo 10-907	11-269
11-Sep-2012	Rating	PubCode		Υ
11-Oct-2010	Rating	PubCode		PRE
26-Feb-2010	Rating	PubCode		Ν
19-Dec-2010	Elec	Hi LRA	N/A	66.1
19-Dec-2010	Elec	Мах ОрСи	r 12.8	10.2
19-Dec-2010	Elec	МСС	N/A	13.6
19-Dec-2010	Elec	RLA	N/A	9.7