ZP24K5E-TF5

HFC, R-410A, 60 Hz, 3 - Phase, 200/230 V

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)			24000	32800	
Power (W):			2420	1570	
Current (Amps):			7.3	5.4	
EER(BTU/Wh):			9.9	20.9	
Mass Flow (lbs/hr):			353	403	
Sound Data @ 45 / 130					
Sound Power (dBA):			69 Avg	74 Max	
Vibration mils(peak-peak):			2.0 Avg	3.0 Max	
Record Date:			2017-03-01		
		Mechanica	I		
Displacement (in^3/Rev):	1.39				
Displacement (ft^3/Hr):					
Overall Length (in):	9.56				
Overall Width (in):	9.56				
Overall Height (in):	15.27				
Mounting Length (in):	7.50				
Mounting Width (in):	7.50				

Mounting Height (in):	16.02
Suction Size (in),Type:	3 / 4 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	25
Oil Recharge (oz):	21
Net Weight (lbs):	46.8
Internal Free Volume (in^3):	129.6

Horse Power:

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

LRA High* (Amps):	58.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	13
Max Operating Current (Amps):	9.5
RLA, MCC/1.4(use for contactor selection)(Amps):	9.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	8.3
RPM:	3500
Box IP:	21
UL File No:	SA-2337
UL File Date:	2003-12-16

^{*}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

No data available in table

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	200/220	3	50	Air Conditioning

Service Parts					
Reference	Component	Quantity	Description	Comment	
1	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND	
1	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND	
2	527-0044-15	1	SPACER - MOUNTING ASSM		
7	998-0510-38	1	VLV KIT 3/4"SWT/1 1/4-12UNC	SUCTION ROTALOCK	
7	998-0510-98	1	VLV KIT 1/2"SWT/1-14UNC	DISCHARGE ROTALOCK	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG		
99	998-0034-01	1	ADAP KIT 3/4"SWT / 11/4 RL	SWEAT TO ROTALOCK ADAPTER KIT SUCTION	
99	998-0034-07	1	ADAP KIT 11/4 RL / 3/4"SWT	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	

Accessories

Accessories				
Category	Part Number	Description		
(1) Variable Frequency Drive	EVM-322011- E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, Standard, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-322011- R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X		
(1) Variable Frequency Drive	EVH-322011- R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-322011- R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-322011- R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1		
(1) Variable Frequency Drive	EVH-322011- R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1		
(1) Variable Frequency Drive	EVM-322011- E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, With add on EMI filter, No Options, Frame 1		

Category	Part Number	Description
(1) Variable	EVM-322011-	EVM, 3Ø, 200-240v, Output 200-240v@11A, Basic, IP20, With add on EMI filter,
Frequency Drive	N20MFN	No Options, Frame 1
(1) Variable	EVM-322011-	EVM, 3Ø, 200-240v, Output 200-240v@11A, Basic, IP20, Standard, No Options,
Frequency Drive	N20MNN	Frame 1

Electrical Components

	Electrical Components
Part N	lo: 071-0572-37
Usage	Description: Internal Protector
Vendo	or Part Number
UP18	MY122-770
<u>Vendo</u>	or Name
UBUK	ATA

Nomenclature

ZP24K5E-TF5

Family Series

Z: Scroll

Application Range

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

Capacity

24K: Capacity Multiplier-1000

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

5: 60Hz (200/230-3) 50Hz (200/220-3)

Miscellaneous

HFC R-410A	50	3 Ø	200/220 V	R1 AC		
		Nomenclat	ure			
ZP24K5E-TF5						
Date	Data Group	Field	Old Data	New Data		
17-Feb-2006	Status	Status	Р	А		
01-Oct-2008	RatingRefNo	RatingRefNo	05-51	08-1136		
30-Sep-2008	Rating	PubCode		Υ		
16-Feb-2006	Rating	PubCode	PRE	Υ		
03-Nov-2004	Rating	PubCode		PRE		
19-Sep-2005	Mech	Rech Oil Charge	19	21		
02-Nov-2005	Elec	Hi LRA	61.0	58.0		
02-Nov-2005	Elec	Lo LRA	53.0			
03-Oct-2005	Elec	Hi LRA	54.7	61.0		

Lo LRA

Voltage

50.8

Application

53.0

Freq

Phase

Refrigerant

03-Oct-2005

Elec