ZP31K5E-TF5

HFC, R-410A, 60 Hz, 3 - Phase, 200/230 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)	31200	42600
Power (W):	3060	2000
Current (Amps):	9.1	7.1
EER(BTU/Wh):	10.2	21.3
Mass Flow (lbs/hr):	459	525
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	

Mechanical

Displacement (in^3/Rev):	1.80
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

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Refrigerant	Voltage	Alternate Applic	ations	Application
No data available in tab	le	Alternate Applic	ations	
Type Part		High MFD	Volts	User Description
		Capacitors	3	
ow and High refer to th	ne low and high nomina	l voltage ranges for	which the moto	r is approved.
UL File Date:			2003-12-16	
UL File No:			SA-2337	
Box IP :			21	
RPM:			3500	
RLA, MCC/1.56(use fo	r breaker & wire size s	election)(Amps):	10.4	
RLA, MCC/1.4(use for	contactor selection)(A	(mps):	11.6	
Max Operating Curren	nt (Amps):		13.0	
MCC (Amps):			16.3	
LRA Half Winding (An	nps):			
LRA Low*(Amps):				
LRA High* (Amps):			73	
Overall compressor heig	ht on Copeland Brand F	Product's s pecificat	nounting gromm	nets.
Horse Power:				
Internal Free Volume (
Net Weight (lbs):	48.1			
Oil Recharge (oz):	23			
Discharge Size (in),Typ Initial Oil Charge (oz):				
Suction Size (in),Type:				

			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	EVM-322017-	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options,
Frequency Drive	E20ENN	Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BDB	Choke, With Bypass, Frame H3X
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BDN	Choke, No Options, Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BDN	Choke, No Options, Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BDB	Choke, With Bypass, Frame H2S

Category	Part Number	Description
(1) Variable	EVM-322017-	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No
Frequency Drive	E20EFN	Options, Frame 2
(1) Variable	EVM-322017-	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, With add on EMI filter,
Frequency Drive	N20MFN	No Options, Frame 2

Electrical Components

Electrical Components
Part No: 071-0572-12
Usage Description: Internal Protector
Vendor Part Number
UP18NY032-550
Vendor Name
UBUKATA
Part No: 071-0572-15
Usage Description: Internal Protector
Vendor Part Number
UP18KY032-550
Vendor Name
UBUKATA

Nomenclature

Family Series	
Z: Scroll	
Application Range	
P: A/C - R-410A/B	
Capacity	
31K: Capacity Multiplier-1000	
Oil Type	
E: Polyol Ester	
Motor Type	
T: 3 Phase	
Motor Protection	
F: Internal Inherent Protection	

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application
<u>-C R-410A</u>	50	3 Ø	200/220 V	R1 AC
		Nomencla	ture	
		<u>ZP31K5E-</u>	<u>TF5</u>	
ate	Data Group	Field	Old Data	New Data
2-Oct-2005	Status	Status	Р	А
2-Jul-2005	Sound	Sound Ave	71	69
2-Jul-2005	Sound	Sound Max	76	74
1-Jul-2005	Sound	Sound Stop	56	60
-Jul-2005	Sound	Sound Stop Max	64	69
-Jun-2007	RatingRefNo	RatingRefNo	05-1335	07-256
-Oct-2005	RatingRefNo	RatingRefNo	05-408	05-1335
2-Oct-2005	Rating	PubCode		Y
-Apr-2005	Rating	PubCode		PRE
9-Sep-2005	Mech	Rech Oil Charge	19	21