ZPS30K5E-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

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)	30600	38000
Power (W):	3000	2460
Current (Amps):	8.9	7.75
EER(BTU/Wh):	10.2	15.45
Mass Flow (lbs/hr):	451	506
Sound Data @ 45 / 130		
Sound Power (dBA):	70 Avg	75 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-22	

Mechanical	
Displacement (in^3/Rev):	1.78
Displacement (ft^3/Hr):	216.7
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):	49.6
Internal Free Volume (in^3):	126
Horse Power:	

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

Electrical

LRA High* (Amps):	73.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	18.1
Max Operating Current (Amps):	14.5
RLA, MCC/1.4(use for contactor selection)(Amps):	12.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	11.6
RPM:	3500
Box IP :	21
UL File No:	SA2337
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

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	200/220	3	50	A/C, 67% Load Of Compressor Model
R-410A HFC	200/230	3	60	A/C, 67% Load Of Compressor Model
R-410A HFC	200/220	3	50	Air Conditioning

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
4	527-0044-15	1	SPACER - MOUNTING ASSM	
5	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND
5	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND
5	918-0052-03	1	STAR CCH KIT	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	998-0510-38	1	VLV KIT 3/4"SWT/1 1/4-12UNC	SUCTION
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-322017-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVH-322017-R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(1) Variable Frequency Drive	EVH-322017-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322017-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable	EVM-322017-	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, With add on EMI filter,

Electrical Components

Electrical Components

Part No: 071-0572-12

Usage Description: Internal Protector

Vendor Part Number

UP18NY032-550

Vendor Name

UBUKATA

Nomenclature

ZPS30K5E-TF5

Family Series

Z: Scroll

Application Range

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

Modulation

S: Two Step

Capacity

30K: 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

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	200/220 V	R1 A6
HFC R-410A	60	3 Ø	200/230 V	R1 A6
HFC R-410A	50	3 Ø	200/220 V	R1 AC

Nomenclature

ZPS30K5E-TF5

Date	Data Group	Field	Old Data	New Data
25-Feb-2011	Status	Status	P	A
25-Feb-2011	Status	Status	P	A
07-Mar-2011	Sound	Sound Ave	72	70
07-Mar-2011	Sound	Sound Ave	72	70
07-Mar-2011	Sound	Sound Max	77	75
07-Mar-2011	Sound	Sound Max	77	75
07-Mar-2011	Sound	Sound Start	68	72
07-Mar-2011	Sound	Sound Start	68	72
07-Mar-2011	Sound	Sound Start Max	76	80
07-Mar-2011	Sound	Sound Start Max	76	80