

ZP42K6E-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	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	42300	57700
Power (W):	4030	2650
Current (Amps):	11.4	7.95
EER(BTU/Wh):	10.5	21.8
Mass Flow (lbs/hr):	621	706
Sound Data @ 50 / 115		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-25	
Mechanical		
Displacement (in ³ /Rev):	2.43	
Displacement (ft ³ /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	16.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

Mounting Height (in):	17.22
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):	209.5

Horse Power:

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

LRA High* (Amps):	83.1
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	21.4
Max Operating Current (Amps):	15.0
RLA, MCC/1.4(use for contactor selection)(Amps):	15.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	13.7
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

Type	Part No	Low MFD	High MFD	Volts	User Description
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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
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
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	ROOTALOCK 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	ROOTALOCK TO SWEAT ADAPTER KIT DISCHARGE
99	998-0230-00	1	CONDUIT ADAPTOR KIT 5/8	

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-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	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
(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

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

Electrical Components

Electrical Components	
Part No: 071-0572-46	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
UP18TY032550	
<u>Vendor Name</u>	
UBUKATA	
Part No: 071-0690-00	Stator
Usage Description: Internal Protector	Part No: 546-2115-11
<u>Vendor Part Number</u>	Usage Description: Stator
34HM122	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 1.13
SENSATA	Run Wdg: 0.00
Stator	
Part No: 846-2115-11	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 1.13	
Run Wdg: 0.00	

Nomenclature

ZP42K6E-TF5
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Capacity

42K: Capacity Multiplier-1000

Model Variation

6: Model Variation

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 AC

Nomenclature

[ZP42K6E-TF5](#)

Date	Data Group	Field	Old Data	New Data
16-Oct-2014	Status	Status	P	A
15-Jun-2014	Sound	Sound Ave	68	71
15-Jun-2014	Sound	Sound Max	73	76
15-Jun-2014	Sound	Sound Start	63	69
15-Jun-2014	Sound	Sound Start Max	71	77
15-Jun-2014	Sound	Sound Stop	69	63
15-Jun-2014	Sound	Sound Stop Max	77	71
15-Jun-2014	Sound	Vibration Ave	2.5	2
15-Jun-2014	Sound	Vibration Max	3.5	3
16-Oct-2014	Rating	PubCode		Y