

ZP61K5E-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)	61500	83000
Power (W):	5750	3820
Current (Amps):	16.6	11.7
EER(BTU/Wh):	10.7	21.7
Mass Flow (lbs/hr):	905	1020
Sound Data @ 45 / 130		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-11-21	
Mechanical		
Displacement (in^3/Rev):	3.49	
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	

Mounting Height (in):	17.66
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):	77.2
Internal Free Volume (in^3):	204

Horse Power:

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

LRA High* (Amps):	136.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	30.6
Max Operating Current (Amps):	27.0
RLA, MCC/1.4(use for contactor selection)(Amps):	21.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	19.6
RPM:	3500
Box IP :	21
UL File No:	SA-2337
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
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	918-0041-00	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	EVM-322025- E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025- R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVH-322025- R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(1) Variable Frequency Drive	EVH-322025- R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025- R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025- R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025- R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322025-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322025-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI filter, No Options, Frame 2

Electrical Components

Electrical Components	
Part No: 071-0672-00	Stator
Usage Description: Internal Protector	Part No: 546-2090-39
<u>Vendor Part Number</u>	Usage Description: Stator
34HM413	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.61
SENSATA	Run Wdg: 0.00

Nomenclature

ZP61K5E-TF5
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Capacity
61K: 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
Nomenclature				
ZP61K5E-TF5				
Date	Data Group	Field	Old Data	New Data
11-Dec-2012	Status	Status	A	P
14-Apr-2011	Status	Status	P	A
11-Dec-2012	RatingRefNo	RatingRefNo	11-283	11-156
14-Apr-2011	RatingRefNo	RatingRefNo	11-156	11-283
19-Feb-2011	RatingRefNo	RatingRefNo	10-909	11-156
09-Oct-2015	Rating	PubCode		Y
18-Feb-2013	Rating	PubCode	PRE	Y
11-Oct-2010	Rating	PubCode		PRE
26-Feb-2010	Rating	PubCode		N
03-Mar-2017	2 Pt Perf	MassFlow Cond 1	905	917