

ZP61K5E-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.

Performance

Mechanical

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):	5700	3760
Current (Amps):	16.0	11.4
EER (Btu/Wh):	10.8	22.1
Mass Flow (lbs/hr):	917	1035
<u>Sound Data @</u>		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-03-01	

Displacment (in ³ /Rev):	3.49
Displacment (ft ³ /hr):	424.01
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	17.50
Mounting Length (in):	7.50
Mounting Width (in):	7.50
Mounting Height (in):	17.75 *
Suction Size (in), Type:	7/8 Stub
Discharge Size (in), Type:	1/2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	38
Net Weight (lbs):	77.2
Internal Free Volume (in ³):	204.0
Horse Power:	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.	

Electrical

Capacitors

LRA High* (Amp):	136.0
LRA Low*(Amp):	
LRA Half Winding (Amp):	
MCC (Amps):	30.6
Max Operating Current (Amp):	27.0
RLA, MCC/1.4;use for contactor selection)(Amp):	21.9
RLA, MCC/1.56;use for breaker & wire size selection)(Amp):	19.6
RPM:	3500
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.	

Type	Part No	Low MFD	High MFD	Volts	User Description

Alternate Applications

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

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Accessories

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
Capacitors	014-0036-17	Start Capacitor, 175-216uF, 330V, All models.
	014-0036-19	Start Capacitor, 88-106uF, 330V, For use on ZP16-31K5E-PFV Compressors.
	014-0037-36	Run Capacitor, 45uF, 370V, For use on ZP29-31K5E-PFV Compressors.
	014-0037-38	Run Capacitor, 80uF, 370V, For use on ZP54K5E-PFV Compressors.
	014-0037-51	Run Capacitor, 70uF, 370V, For use on ZP42-51K5E-PFV Compressors.
CoreSense	571-0066-00	CoreSense™ Diagnostics Module (2 wire)
	571-0066-01	CoreSense Diagnostics (Fixed Speed AC)
	571-0067-00	CoreSense™ Diagnostics Module (3 wire)
	571-0067-01	CoreSense Diagnostics (Fixed Speed HP)
	571-0072-00	CoreSense Diagnostics (Two Stage UT)
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
	018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
	018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
	018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
	018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length
	018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length
	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length
	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
	018-0096-00	Crankcase Heater, 240V, 40W, 21.75" Lead Length
	018-0096-01	Crankcase Heater, 120V, 40W, 21.75" Lead Length
	018-0096-02	Crankcase Heater, 480V, 40W, 21.75" Lead Length

Scott Kohler
04/10/2017

<u>Category</u>	<u>PartNumber</u>	<u>Description</u>
	018-0096-03	Crankcase Heater, 575V, 40W, 21.75" Lead Length
	018-0096-04	Crankcase Heater, 240V, 40W, 48.25" Lead Length
	018-0096-05	Crankcase Heater, 480V, 40W, 48.25" Lead Length
	018-0096-06	Crankcase Heater, 240V, 40W, 31.75" Lead Length
Digital Components	543-0024-01	Digital Compressor Controller
Electrical	040-0166-37	Potential Relay, 170-180 PU Volts, 40-90 DO Volts, 332 Coil Volts
Molded Plugs	529-0060-04	Molded Plug Kit, 10 GA Wire, 42" Length, Black / Yellow / Red
Motor Protection	543-0010-01	Comfort Alert (Fixed Speed Two Wire)
	543-0012-00	Comfort Alert (Fixed Speed Heat Pump)
	543-0032-00	Comfort Alert (Fixed Speed L Terminal)
	543-0033-01	Comfort Alert (Two Stage UT)
	543-0033-02	Comfort Alert (Two Stage UT with power savings)
	543-0038-01	Commercial Comfort Alert (Two Stage)
	543-0038-02	Commercial Comfort Alert (Single Stage)
	543-0067-00	Comfort Alert (Fixed Speed Geothermal)
	543-0069-01	Comfort Alert (Two Stage Geothermal)
	543-0071-00	Commercial Comfort Alert (Two Stage Modified)
	543-0120-00	SecureStart™
Mounting	527-0116-00	Spacer Mounting Kit, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
2	527-0116-00	1	SPACER-MOUNTING ASSM	
	529-0060-24	1	POWER CABLE-MOLDED PLUG	
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
99	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER KIT
	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT
99	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER KIT
	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT
8	998-0510-90	1	SERV VALVE KIT 7/8 SWT	SUCTION ROTALOCK
7	998-0510-98	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
99	998-7022-02	1	DISCH LINE T'STAT	FITS 1/2 TUBE
9	998-7026-00	1	HEATER JUNCTION BOX KIT	