

ZP61K5E-TFD

HFC, R-410A, 60 Hz, 3 -Phase, 460 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

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):	8.00	5.75
EER (Btu/Wh):	10.80	22.10
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	

Mechanical

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

LRA-High*(Amp):	66.1
LRA Low* (Amp):	
LRA-Half Winding (Amp):	
MCC (Amps):	12.8
Max Operating Current(Amp):	11.0
RLA, MCC/1.4;use for contactor selection (Amp):	9.1
RLA, MCC/1.56;use for breaker & wire size selection (Amp):	8.2
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.	

Capacitors

Alternate Applications

<u>Refrigerant</u>	<u>Voltage</u>	<u>Phase</u>	<u>Freq (Hz)</u>	<u>Application</u>
R-410A HFC	380/420	3	50	Air Conditioning

ZP61K5E-TFD

HFC, R-410A, 60Hz, 3- Phase, 460 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.

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	

ZP61K5E-TFD

HFC, R-410A, 60Hz, 3- Phase, 460 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.

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

06/20/2017

Page 1 of 2

<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

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
800	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-
803	Stub	7/8"	Stub	1/2"		-	-	-	-	-	-
830	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-
899	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-

* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.