ZR61K3E-PFV

HFC, R-407C, 60 Hz, 1 - Phase, 208/230 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.

Summary

Performance		
Evaporator Temp. (°F)	45	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	59400	71700
Power (W):	5620	3740
Current (Amps):	26.2	18.3
EER(BTU/Wh):	10.55	19.2
Mass Flow (lbs/hr):	859	885
Sound Data @		
Sound Power (dBA):	74 Avg	79 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2014-08-07	

Mechanical	
Displacement (in^3/Rev):	5.04
Displacement (ft^3/Hr):	
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	17.75
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	18.00
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	56
Oil Recharge (oz):	52
Net Weight (lbs):	90.0
Internal Free Volume (in^3):	215
Horse Power:	5.0

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

Electrical

LRA High* (Amps):	148.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	45
Max Operating Current (Amps):	40.0
RLA, MCC/1.4(use for contactor selection)(Amps):	32.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	28.8
RPM:	3500
Box IP :	21
UL File No:	
UL File Date:	1993-07-26

*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
Run Capacitor	014-0041-01	80.0	0.0	370	SPECIAL CUSTOMER APPLICATION
Run Capacitor	014-0054-38	80.0	0.0	370	PLASTIC CASE ALT ASIAN MK ONLY
Run Capacitor	014-0064-27	80.0	0.0	370	
Start Capacitor	014-0006-15	270.0	324.0	330	OPTIONAL

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application

Refrigerant	Voltage	Phase	Frequency	Application

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
4	914-0037-38	1	RUN CAP KIT	
5	914-0006-10	1	CAP START KIT	
6	940-0001-79	1	RELAY-POTENTIAL KIT	

Accessories

Accessories

Category	Part Number	Description
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	918-0043-07	Crankcase Heater Kit, 120V, 70W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0043-02	Crankcase Heater Kit, 575V, 70W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0043-01	Crankcase Heater Kit, 480V, 70W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0043-00	Crankcase Heater Kit, 240V, 70W, Wrap Around, 48" Lead Length
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length

Category	Part Number	Description
Crankcase	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

Electrical Components

Electrical Components

Part No: 071-0510-12

Usage Description: Internal Protector

Vendor Part Number

16HM166

Vendor Name

T. I.

Part No: 071-0707-01

Usage Description: Internal Protector

Vendor Part Number

UP16NY0510-AO

Vendor Name

UBUKATA

Stator

Part No: 546-5078-48

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.65

Run Wdg: 0.36

Stator

Part No: 846-5078-48

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.65

Run Wdg: 0.36

Potential

Part No: 040-0166-37

Usage Description: Potential Relay

Vendor Part Number

RVA2AE6D-946

Vendor Name

ELECTRICA

Start Capacitor

Part No: 014-0006-15

Low MFD: 270.0

Type:Start Capacitor

High MFD: 324.0

Usage Description: Start Capacitor

Volts: 330

Run Capacitor

Part No: 014-0041-01

Low MFD: 80.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Run Capacitor

Part No: 014-0054-38

Low MFD: 80.0

Run Capacitor

Part No: 014-0064-27

Low MFD: 80.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Nomenclature

ZR61K3E-PFV

Family Series

Z: Scroll

Application Range

R: A/C - R-22/407C/134a

Capacity

61K: Capacity Multiplier-1000

Oil Type

E: Polyol Ester

Motor Type

P: 1 Phase/Capacitor Run, Permanent Split Capacitor

Motor Protection

F: Internal Inherent Protection

Voltage

V: 60Hz (208/230-1) 50Hz (-)

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	60	1 Ø	208/230 V	R1

Nomenclature

ZR61K3E-PFV

Date	Data Group	Field	Old Data	New Data
07-Aug-2014	RatingRefNo	RatingRefNo	09-377	14-306
29-Jun-2009	RatingRefNo	RatingRefNo	09-209	09-377
29-Mar-2009	RatingRefNo	RatingRefNo	08-46	09-209
29-Jun-2009	Rating	PubCode		Y
07-Aug-2014	2 Pt Perf	Amp Cond 1	25.5	26.2

Date	Data Group	Field	Old Data	New Data
07-Aug-2014	2 Pt Perf	Amp Cond 2	17.6	18.3
07-Aug-2014	2 Pt Perf	Cap Cond 1	60000	59400
07-Aug-2014	2 Pt Perf	Cap Cond 2	73000	71700
07-Aug-2014	2 Pt Perf	FFR Cond 1	10.8	10.55