

ZR57K3E-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)	55500	67000
Power (W):	5250	3500
Current (Amps):	24.5	17.1
EER(BTU/Wh):	10.55	19.2
Mass Flow (lbs/hr):	802	827
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):	4.71	
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):	
Horse Power:	4.8

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

LRA High* (Amps):	148.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	45
Max Operating Current (Amps):	37.0
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
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Refrigerant	Voltage	Phase	Frequency	Application
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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	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	

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
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

Category	Part Number	Description
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Electrical Components

Electrical Components	
Part No: 071-0510-12	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
16HM166	
<u>Vendor Name</u>	
T. I.	
Part No: 071-0707-01	Stator
Usage Description: Internal Protector	Part No: 546-5078-48
<u>Vendor Part Number</u>	Usage Description: Stator
UP16NY0510-AO	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.65
UBUKATA	Run Wdg: 0.36
Stator	Potential
Part No: 846-5078-48	Part No: 040-0166-37
Usage Description: Stator	Usage Description: Potential Relay
Resistance: +/-7%	<u>Vendor Part Number</u>
Start Wdg: 0.65	RVA2AE6D-946
Run Wdg: 0.36	<u>Vendor Name</u>
	ELECTRICA
Start Capacitor	Run Capacitor
Part No: 014-0006-15	Part No: 014-0041-01
Low MFD: 270.0	Low MFD: 80.0
Type:Start Capacitor	Type:Run Capacitor
High MFD: 324.0	High MFD: 0.0
Usage Description: Start Capacitor	Usage Description: Run Capacitor
Volts: 330	Volts: 370
Run Capacitor	Run Capacitor
Part No: 014-0054-38	Part No: 014-0064-27
Low MFD: 80.0	Low MFD: 80.0
Type:Run Capacitor	Type:Run Capacitor
High MFD: 0.0	High MFD: 0.0

Usage Description: Run Capacitor	Usage Description: Run Capacitor
Volts: 370	Volts: 370

Nomenclature

ZR57K3E-PFV
Family Series
Z: Scroll
Application Range
R: A/C - R-22/407C/134a
Capacity
57K: 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				
ZR57K3E-PFV				
Date	Data Group	Field	Old Data	New Data
07-Aug-2014	Status	Status	P	A
07-Aug-2014	RatingRefNo	RatingRefNo	12-721	14-300
07-Aug-2014	Rating	PubCode		Y
29-Oct-2012	Rating	PubCode		PRE
07-Aug-2014	2 Pt Perf	Amp Cond 1	24.15	24.5
07-Aug-2014	2 Pt Perf	Amp Cond 2	16.75	17.1

Date	Data Group	Field	Old Data	New Data
07-Aug-2014	2 Pt Perf	Cap Cond 1	56200	55500
07-Aug-2014	2 Pt Perf	Cap Cond 2	66300	67000
07-Aug-2014	2 Pt Perf	EEP Cond 1	10.75	10.55