ZP24K6E-PFV

HFC, R-410A, 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	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	23900	32500
Power (W):	2350	1540
Current (Amps):	10.25	6.75
EER(BTU/Wh):	10.2	21.1
Mass Flow (lbs/hr):	352	398
Sound Data @ 50 / 115		
Sound Power (dBA):	66 Avg	71 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2021-06-14	

Mechanical	
Displacement (in^3/Rev):	1.37
Displacement (ft^3/Hr):	
Overall Length (in):	9.56
Overall Width (in):	9.56
Overall Height (in):	15.27
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	16.02
Suction Size (in),Type:	3 / 4 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	25
Oil Recharge (oz):	21
Net Weight (lbs):	48.9
Internal Free Volume (in^3):	121.4
Horse Power:	

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

Electrical

LRA High* (Amps):	67.8
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	20
Max Operating Current (Amps):	13.4
RLA, MCC/1.4(use for contactor selection)(Amps):	14.3
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	12.8
RPM:	3500
Box IP :	21
UL File No:	SA2337
UL File Date:	2003-12-16

*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	014-0064-08	40.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
No data available in table				

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0044-15	1	SPACER - MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	914-0036-03	1	CAP START KIT	
99	914-0037-12	1	RUN CAP KIT W/CLAMP	
99	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND
99	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND
99	940-0001-79	1	RELAY-POTENTIAL KIT	
99	943-0120-00	1	SECURE START 1PH SINGLE PACK	
99	971-0066-00	1	MODULE-P210 ASSM	CORESENSE DIAGNOSTICS 2-WIRE

Accessories

Accessories

Category	Part Number	Description
CoreSense	971-0066-00	CoreSenseTM Diagnostics Module (2-Wire Module, 1-Phase Only)
CoreSense	971-0067-00	CoreSenseTM Diagnostics Module (3-Wire Module, 1-Phase Only)
Crankcase Heaters	998-7026-00	Crankcase Heater Enclosure Box
Crankcase Heaters	018-0094-00	Crankcase Heater, 240V, 40W
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W
Crankcase Heaters	018-0094-03	Crankcase Heater, 480V, 40W, 21.25" Lead Length
Discharge Line Thermostats / Thermistors	998-7022-02	Discharge Line Thermostat Kit, 1/2", 36" Leads (Conduit Ready)
Electrical Components	040-0166-07	Start Relay, 140-150V pick-up, 40-90V drop-out, 290 coil voltage

Category	Part Number	Description

Electrical Components

Electrical Components

Part No: 071-0512-53

Usage Description: Internal Protector

Vendor Part Number

15HM2492

Vendor Name

SENSATA

Part No: 071-0512-65

Usage Description: Internal Protector

Vendor Part Number

15HM2519

Vendor Name

SENSATA

Part No: 071-0642-11

Usage Description: Internal Protector

Vendor Part Number

UP14MY5215C

Vendor Name

UBUKATA

Stator

Part No: 546-5016-45

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.78

Run Wdg: 1.18

Stator

Part No: 546-5127-45

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.78

Run Wdg: 1.18

Stator

Part No: 546-5135-03

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.78

Run Wdg: 1.18

Stator

Part No: 846-5016-45

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.78

Run Wdg: 1.18

Stator

Part No: 846-5127-45

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.78

Run Wdg: 1.18

Potential

Start Capacitor

Part No: 040-0166-37

Usage Description: Potential Relay

Vendor Part Number

RVA2AE6D-946

Vendor Name

ELECTRICA

Part No: 014-0061-27

Low MFD: 88.0

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

Run Capacitor

Part No: 014-0064-08

Low MFD: 40.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Nomenclature

ZP24K6E-PFV

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Capacity

24K: Capacity Multiplier-1000

Model Variation

6: Model Variation

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

Refrigerant	Freq	Phase	Voltage	Application

Nomenclature

ZP24K6E-PFV

Date	Data Group	Field	Old Data	New Data
03-Aug-2014	RatingRefNo	RatingRefNo	13-206	14-6
01-Aug-2014	Rating	PubCode		Y
06-Mar-2013	Rating	PubCode		N
08-Jan-2014	Elec	Hi LRA	64.0	67.8
20-Apr-2017	2 Pt Perf	MassFlow Cond 1	349	352
20-Apr-2017	2 Pt Perf	MassFlow Cond 2	397	398
15-Oct-2014	2 Pt Perf	Amp Cond 2	8.25	6.75
15-Oct-2014	2 Pt Perf	Cap Cond 2	29600	32500
15-Oct-2014	2 Pt Perf	EER Cond 2	15.7	21.1
15-Oct-2014	2 Pt Perf	MassFlow Cond 2	392	397