

ZP14K6E-PFV

HFC, R-410A, 60 Hz, 1 - Phase, 208/230 V [Also Available with Variable Frequency Drives](#)

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)	14700	20200
Power (W):	1505	962
Current (Amps):	6.65	4.25
EER(BTU/Wh):	9.75	21.05
Mass Flow (lbs/hr):	216	248
Sound Data @ 50 / 115		
Sound Power (dBA):	66 Avg	71 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-24	
Mechanical		
Displacement (in ³ /Rev):	.88	
Displacement (ft ³ /Hr):		
Overall Length (in):	9.56	
Overall Width (in):	9.56	
Overall Height (in):	14.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

Mounting Height (in):	15.96
Suction Size (in),Type:	3 / 4 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	21
Oil Recharge (oz):	17
Net Weight (lbs):	44.3
Internal Free Volume (in^3):	134

Horse Power:

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

LRA High* (Amps):	47.5
LRA Low*(Amps):	47.5
LRA Half Winding (Amps):	
MCC (Amps):	14
Max Operating Current (Amps):	11.0
RLA, MCC/1.4(use for contactor selection)(Amps):	10.0
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	9.0
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	014-0064-06	30.0	0.0	370	
Start Capacitor	014-0061-27	88.0	106.0	330	OPTIONAL

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
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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	914-0037-10	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	940-0140-08	1	RELAY 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
(1) Variable Frequency Drive	EVM-322011-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322011-R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVH-322011-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322011-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322011-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322011-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVM-322011-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, With add on EMI filter, No Options, Frame 1

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322011-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Basic, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVM-322011-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Basic, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-122011-	EVM. 1Ø. 200-240v. Output 200-240v@11A. Pro. IP20. Standard. No

Electrical Components

Electrical Components	
Part No: 071-0508-52	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
15HM1785	
<u>Vendor Name</u>	
TI	
Part No: 071-0512-66	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
15HM1998	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0640-19	Stator
Usage Description: Internal Protector	Part No: 546-5016-44
<u>Vendor Part Number</u>	Usage Description: Stator
UP5RA1415-C71	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 1.66
UBUKATA	Run Wdg: 1.57
Stator	Stator
Part No: 546-5135-05	Part No: 846-5016-44
Usage Description: Stator	Usage Description: Stator
Resistance: +/-7%	Resistance: +/-7%
Start Wdg: 2.29	Start Wdg: 1.66
Run Wdg: 1.93	Run Wdg: 1.57
Potential	Start Capacitor
Part No: 040-0166-07	Part No: 014-0061-27
Usage Description: Potential Relay	Low MFD: 88.0

Vendor Part Number

RVA2AC6D-970

Vendor Name

ELECTRICA

Run Capacitor

Part No: 014-0064-06

Low MFD: 30.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

Type:Start Capacitor

High MFD: 106.0

Usage Description: Start Capacitor

Volts: 330

Nomenclature

ZP14K6E-PFV

Family Series

Z: Scroll

Application Range

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

Capacity

14K: 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

No data available in table

Nomenclature

[ZP14K6E-PFV](#)

Date	Data Group	Field	Old Data	New Data
02-Oct-2014	Status	Status	P	A
01-May-2014	Status	Status	A	P
01-May-2014	RatingRefNo	RatingRefNo	13-203	14-2
02-Oct-2014	Rating	PubCode		Y
01-May-2014	Rating	PubCode		PRE
06-Mar-2013	Rating	PubCode		N
01-Feb-2014	Elec	Hi LRA	46.0	47.5
25-Apr-2017	2 Pt Perf	MassFlow Cond 1	215	216
15-Oct-2014	2 Pt Perf	Amp Cond 2	5.3	4.25
15-Oct-2014	2 Pt Perf	Cap Cond 2	18400	20200