

ZP16K6E-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)	15800	21400
Power (W):	1565	1010
Current (Amps):	6.85	4.45
EER(BTU/Wh):	10.1	21.2
Mass Flow (lbs/hr):	231	262
Sound Data @ 50 / 115		
Sound Power (dBA):	66 Avg	71 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-25	
Mechanical		
Displacement (in^3/Rev):	.91	
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):	46.1
Internal Free Volume (in^3):	139.12

Horse Power:

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

Electrical

LRA High* (Amps):	56.3
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	14
Max Operating Current (Amps):	9.1
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	940-0001-79	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
(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 Frequencv	EVM-122011-	EVM. 1Ø. 200-240v. Outbut 200-240v@11A. Pro. IP20. Standard. No

Electrical Components

Electrical Components	
Part No: 071-0509-45	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
15HM1746	
<u>Vendor Name</u>	
SENSATA	
Part No: 071-0640-02	Stator
Usage Description: Internal Protector	Part No: 546-5016-06
<u>Vendor Part Number</u>	Usage Description: Stator
UP5FY0825-C11	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 2.13
UBUKATA	Run Wdg: 1.39
Stator	Potential
Part No: 846-5016-06	Part No: 040-0166-37
Usage Description: Stator	Usage Description: Potential Relay
Resistance: +/-7%	<u>Vendor Part Number</u>
Start Wdg: 2.13	RVA2AE6D-946
Run Wdg: 1.39	<u>Vendor Name</u>
	ELECTRICA
Start Capacitor	Run Capacitor
Part No: 014-0061-27	Part No: 014-0064-06
Low MFD: 88.0	Low MFD: 30.0
Type:Start Capacitor	Type:Run Capacitor
High MFD: 106.0	High MFD: 0.0
Usage Description: Start Capacitor	Usage Description: Run Capacitor
Volts: 330	Volts: 370

Nomenclature

ZP16K6E-PFV
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Capacity
16K: 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				
ZP16K6E-PFV				
Date	Data Group	Field	Old Data	New Data
26-Jun-2014	Status	Status	P	A
30-May-2014	Status	Status	A	P
30-May-2014	RatingRefNo	RatingRefNo	13-204	14-3
26-Jun-2014	Rating	PubCode		Y
29-May-2014	Rating	PubCode		PRE
06-Mar-2013	Rating	PubCode		N
01-Feb-2014	Elec	Hi LRA	48.0	56.3
15-Oct-2014	2 Pt Perf	Amp Cond 2	5.5	4.45

Date	Data Group	Field	Old Data	New Data
15-Oct-2014	2 Pt Perf	Cap Cond 2	19450	21400