

CR28K6E-PFV

HCFC, R-22, 60 Hz, 1 - Phase, 208/230 V [Also Available with Variable Frequency Drives](#)

Air Conditioning

Production Status: Preliminary data only - Contact your Emerson Climate Technologies Representative.

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)		26100	36300
Power (W):		2440	2010
Current (Amps):		11.8	10.1
EER(BTU/Wh):		10.7	18.05
Mass Flow (lbs/hr):		377	449
Sound Data @			
Sound Power (dBA):		73 Avg	78 Max
Vibration mils(peak-peak):		4.5 Avg	5.5 Max
Record Date:		2020-11-29	
Mechanical			
Displacement (in^3/Rev):		3.02	
Displacement (ft^3/Hr):			
Overall Length (in):		10.23	
Overall Width (in):		9.65	
Overall Height (in):		13.56	
Mounting Length (in):		7.50	
Mounting Width (in):		7.50	
Mounting Height (in):		13.94	

Suction Size (in),Type: 3 / 4 Stub

Discharge Size (in),Type: 1 / 2 Stub

Initial Oil Charge (oz): 45

Oil Recharge (oz): 43

Net Weight (lbs): 64.0

Internal Free Volume (in³):

Horse Power:

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

Electrical

LRA High* (Amps): 75.0

LRA Low*(Amps):

LRA Half Winding (Amps):

MCC (Amps): 21.4

Max Operating Current (Amps): 17.1

RLA, MCC/1.4(use for contactor selection)(Amps): 15.3

RLA, MCC/1.56(use for breaker & wire size selection)(Amps): 13.7

RPM:

Box IP :

UL File No:

UL File Date: 1984-12-28

*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	014-0064-07	35.0	0.0	370	
Start Capacitor	014-0061-04	145.0	175.0	220	HIGH TORQUE
Start Capacitor	014-0061-16	43.0	52.0	330	LOW TORQUE

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-407C HFC	208/230	1	60	Air Conditioning
R-407C HFC	200	1	50	Air Conditioning

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	527-0044-08	1	SPACER-MOUNTING ASSM	
2	914-0008-51	1	CAP START KIT	
3	914-0037-11	1	RUN CAP KIT W/CLAMP	
4	940-0001-60	1	RELAY-POTENTIAL KIT	
10	918-0088-00	1	HEATER-CRANKCASE KIT	40/49W 240/265V FLEXIBLE
12	568-2010-00	1	C SERVICE KIT ASSM	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	005-1210-00	1	COVER-TERMINAL BOX	

Accessories

Accessories		
Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322017-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122017-E20ENN	EVM, 1Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122017-E20EFN	EVM, 1Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322017-DE4BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2

Electrical Components

Electrical Components	
Part No: 071-0508-39 Usage Description: Internal Protector Vendor Part Number 15HM1709 Vendor Name T I Potential Part No: 040-0166-19 Usage Description: Potential Relay Vendor Part Number RVA4AG6D-921 Vendor Name ELECTRICA Start Capacitor Part No: 014-0061-16 Low MFD: 43.0 Type:Start Capacitor High MFD: 52.0 Usage Description: Start Capacitor Volts: 330	Stator Part No: 546-5081-06 Usage Description: Stator Resistance: +/-7% Start Wdg: 2.83 Run Wdg: 0.81 Start Capacitor Part No: 014-0061-04 Low MFD: 145.0 Type:Start Capacitor High MFD: 175.0 Usage Description: Start Capacitor Volts: 220 Run Capacitor Part No: 014-0064-07 Low MFD: 35.0 Type:Run Capacitor High MFD: 0.0 Usage Description: Run Capacitor Volts: 370

Nomenclature

CR28K6E-PFV
Family Series C: CR Compressors Application Range R: R-22/ High Temp. A/C & Heat Pump Capacity 28K: Capacity

Model Variation**6:** Model Variation - 6**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 (200-1)

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	1 Ø	200 V	R1
HCFC R-22	60	1 Ø	208/230 V	R1
HFC R-407C	50	1 Ø	200 V	R1 AC
HFC R-407C	60	1 Ø	208/230 V	R1 AC

Nomenclature

[CR28K6E-PFV](#)

Date	Data Group	Field	Old Data	New Data
14-Jan-2014	Sound	Vibration Ave	1.5	4.5
14-Jan-2014	Sound	Vibration Max	2.5	5.5