

## CR20K6E-PFV

HCFC, R-22, 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	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	17700	25600
Power (W):	1690	1445
Current (Amps):	7.75	6.65
EER(BTU/Wh):	10.5	17.7
Mass Flow (lbs/hr):	258	318
Sound Data @		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	1.6 Avg	2.6 Max
Record Date:	2018-08-22	
Mechanical		
Displacement (in^3/Rev):	2.23	
Displacement (ft^3/Hr):		
Overall Length (in):	10.23	
Overall Width (in):	9.65	
Overall Height (in):	13.19	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	13.56
<b>Suction Size (in),Type:</b>	3 / 4 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	45
<b>Oil Recharge (oz):</b>	43
<b>Net Weight (lbs):</b>	61.0
<b>Internal Free Volume (in^3):</b>	
<b>Horse Power:</b>	

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

<b>LRA High* (Amps):</b>	50.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	14.9
<b>Max Operating Current (Amps):</b>	
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	10.6
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	9.6
<b>RPM:</b>	
<b>Box IP :</b>	
<b>UL File No:</b>	
<b>UL File Date:</b>	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	014-0064-06	30.0	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	914-0037-10	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-322011-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-122011-E20ENN	EVM, 1Ø, 200-240v, Output 200-240v@11A, Pro, IP20, Standard, No Options, Frame 2
(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-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-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@11A, Pro, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVM-122011-E20EFN	EVM, 1Ø, 200-240v, Output 200-240v@11A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(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-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@11A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1

Category	Part Number	Description
(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

## Electrical Components

### Electrical Components

Part No: 071-0546-24

Usage Description: Internal Protector

Vendor Part Number

15HM1959

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: 546-5081-66

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 3.66

Run Wdg: 1.27

#### 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: 014-0064-06

Low MFD: 30.0

Type:Run Capacitor

High MFD: 0.0

Usage Description: Run Capacitor

Volts: 370

## Nomenclature

CR20K6E-PFV

#### Family Series

**C:** CR Compressors

#### Application Range

**R:** R-22/ High Temp. A/C & Heat Pump

#### Capacity

**20K:** 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
<a href="#">HCFC R-22</a>	50	1 Ø	200 V	R1
<a href="#">HCFC R-22</a>	60	1 Ø	208/230 V	R1
<a href="#">HFC R-407C</a>	50	1 Ø	200 V	R1 AC
<a href="#">HFC R-407C</a>	60	1 Ø	208/230 V	R1 AC

## Nomenclature

[CR20K6E-PFV](#)

Date	Data Group	Field	Old Data	New Data
21-Aug-2018	Sound	Vibration Ave	1.6	1.6
21-Aug-2018	Sound	Vibration Max	2.6	2.6
21-Aug-2018	Rating	PubCode	Y	Y