

# CR34K6E-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)	31200	43500
Power (W):	2950	2430
Current (Amps):	13.6	11.65
EER(BTU/Wh):	10.6	17.9
Mass Flow (lbs/hr):	455	540
Sound Data @		
Sound Power (dBA):	75 Avg	80 Max
Vibration mils(peak-peak):	3.6 Avg	4.6 Max
Record Date:	2020-11-29	
Mechanical		
Displacement (in^3/Rev):	3.70	
Displacement (ft^3/Hr):		
Overall Length (in):	10.23	
Overall Width (in):	9.65	
Overall Height (in):	14.06	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	14.44
<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>	67.0
<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>	96.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	23.2
<b>Max Operating Current (Amps):</b>	
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	16.6
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	14.9
<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	014-0064-29	50.0	0.0	370	
Start Capacitor	014-0006-13	189.0	227.0	330	HIGH TORQUE
Start Capacitor	014-0061-13	64.0	77.0	330	LOW TORQUE

#### Alternate Applications

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

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	527-0044-08	1	SPACER-MOUNTING ASSM	
2	914-0006-03	1	CAP START KIT	
4	940-0001-55	1	RELAY-POTENTIAL KIT	
8	914-0037-40	1	RUN CAP 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-322025-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122025-E20ENN	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-322025-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322025-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322025-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122025-E20EFN	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322025-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2

Category	Part Number	Description
(1) Variable	EVH-322025-	EVH. 3Ø. 200-240v. Output 200-240v@25A. LCD Keypad. IP54. With 5% DC Link

Electrical Components

Electrical Components	
<p>Part No: 071-0508-30</p> <p>Usage Description: Internal Protector</p> <p><u>Vendor Part Number</u></p> <p>15HM1414</p> <p><u>Vendor Name</u></p> <p>T I</p> <p><b>Potential</b></p> <p>Part No: 040-0166-15</p> <p>Usage Description: Potential Relay</p> <p><u>Vendor Part Number</u></p> <p>RVA3AG6D-917</p> <p><u>Vendor Name</u></p> <p>ELECTRICA</p> <p><b>Start Capacitor</b></p> <p>Part No: 014-0061-13</p> <p>Low MFD: 64.0</p> <p>Type:Start Capacitor</p> <p>High MFD: 77.0</p> <p>Usage Description: Start Capacitor</p> <p>Volts: 330</p>	<p><b>Stator</b></p> <p>Part No: 546-5081-27</p> <p>Usage Description: Stator</p> <p>Resistance: +/-7%</p> <p>Start Wdg: 1.91</p> <p>Run Wdg: 0.64</p> <p><b>Start Capacitor</b></p> <p>Part No: 014-0006-13</p> <p>Low MFD: 189.0</p> <p>Type:Start Capacitor</p> <p>High MFD: 227.0</p> <p>Usage Description: Start Capacitor</p> <p>Volts: 330</p> <p><b>Run Capacitor</b></p> <p>Part No: 014-0064-29</p> <p>Low MFD: 50.0</p> <p>Type:Run Capacitor</p> <p>High MFD: 0.0</p> <p>Usage Description: Run Capacitor</p> <p>Volts: 370</p>

Nomenclature

CR34K6E-PFV
<b>Family Series</b>
<b>C:</b> CR Compressors
<b>Application Range</b>
<b>R:</b> R-22/ High Temp. A/C & Heat Pump
<b>Capacity</b>
<b>34K:</b> Capacity
<b>Model Variation</b>

**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
<a href="#">HFC R-407C</a>	60	1 Ø	208/230 V	R1 AC

### Nomenclature

[CR34K6E-PFV](#)

Date	Data Group	Field	Old Data	New Data
29-Nov-2020	Sound	Vibration Ave	3.6	3.6
29-Nov-2020	Sound	Vibration Max	4.6	4.6
14-Jan-2014	Sound	Vibration Ave	2.6	3.6
14-Jan-2014	Sound	Vibration Max	3.6	4.6