# CR24K6E-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

		Performanc	e	
Evaporator Temp. (°F)			45	45
Condensing Temp. (°F)			130	100
Return Gas Temp. (°F)			65	65
Liquid Temp. (°F)			115	85
Capacity (BTU/hr)			22600	31500
Power (W):			2140	1765
Current (Amps):			9.5	8.1
EER(BTU/Wh):			10.55	17.8
Mass Flow (lbs/hr):			377	449
Sound Data @				
Sound Power (dBA):			72 Avg	77 Max
Vibration mils(peak-peak):			2.3 Avg	3.3 Max
Record Date:			2020-11-29	
		Mechanica	I	
Displacement (in^3/Rev):	2.70			
Displacement (ft^3/Hr):				
Overall Length (in):	10.23			
Overall Width (in):	9.65			
Overall Height (in):	13.44			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			
Mounting Height (in):	13.81			

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Suction Size (in),Type:	3 / 4 Stub		
	574500		
Discharge Size (in),Type:	1 / 2 Stub		
Initial Oil Charge (oz):	45		
Oil Recharge (oz):	43		
Net Weight (lbs):	63.0		
Internal Free Volume (in^3):			
Horse Power:			
Overall compressor height on C	Copeland Brand	l Product's specified n Electrical	nounting grom
LRA High* (Amps):			61.0
LRA Low*(Amps):			
LRA Half Winding (Amps):			17.4
LRA Low*(Amps): LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amp	os):		17.4
LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amp		(Amps):	17.4
LRA Half Winding (Amps): MCC (Amps):	tor selection)	-	
LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amp RLA, MCC/1.4(use for contac	tor selection)	-	12.4
LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amp RLA, MCC/1.4(use for contac RLA, MCC/1.56(use for break	tor selection)	-	12.4
LRA Half Winding (Amps): MCC (Amps): Max Operating Current (Amp RLA, MCC/1.4(use for contac RLA, MCC/1.56(use for break RPM:	tor selection)	-	12.4

\*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

		Capaci	tors		
Туре	Part No	Low MFD	High MFD	Volts	User Description
Run Capacitor	014-0064-07	35.0	0.0	370	
Start Capacitor	014-0061-16	43.0	52.0	330	LOW TORQUE
Start Capacitor	014-0061-28	145.0	175.0	250	HIGH TORQUE
		Alternate Ap	plications		
Refrigerant	Voltage	Phase	Frequency		Application
R-22 HCFC	200	1	50		UL High Temp
R-407C HFC	208/230	1	60		Air Conditioning

Refrigerant	Voltage	Phase	Frequency	Application
	200	1	50	Air Conditioning

#### Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
	527-0044-08	1	SPACER-MOUNTING ASSM	
2	914-0036-04	1	CAP START KIT	
3	914-0037-11	1	RUN CAP KIT W/CLAMP	
1	940-0001-55	1	RELAY-POTENTIAL KIT	
0	918-0088-00	1	HEATER-CRANKCASE KIT	40/49W 240/265V FLEXIBLE
12	568-2010-00	1	C SERVICE KIT ASSM	
4	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	005-1210-00	1	COVER-TERMINAL BOX	

#### Accessories

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

Category	Part Number	Description
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 2
(1) Variable	EVH-322017-	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BDN	Choke, No Options, Frame 2
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### **Electrical Components**

EI	ectrical Components
Part No: 071-0508-35	Stator
Usage Description: Internal Protector	Part No: 546-5081-03
Vendor Part Number	Usage Description: Stator
15HM1702	Resistance: +/-7%
Vendor Name	Start Wdg: 2.59
ті	Run Wdg: 1.00
Potential	Start Capacitor
Part No: 040-0166-15	Part No: 014-0061-16
Usage Description: Potential Relay	Low MFD: 43.0
Vendor Part Number	Type:Start Capacitor
RVA3AG6D-917	High MFD: 52.0
Vendor Name	Usage Description: Start Capacitor
ELECTRICA	Volts: 330
Start Capacitor	Run Capacitor
Part No: 014-0061-28	Part No: 014-0064-07
Low MFD: 145.0	Low MFD: 35.0
Type:Start Capacitor	Type:Run Capacitor
High MFD: 175.0	High MFD: 0.0
Usage Description: Start Capacitor	Usage Description: Run Capacitor
Volts: 250	Volts: 370

#### Nomenclature

CR24K6E-PFV

Family Series
C: CR Compressors

Application Range

R: R-22/ High Temp. A/C & Heat Pump	
Capacity	
24K: Capacity	
Model Variation	
<b>6:</b> 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	
<b>V:</b> 60Hz (208/230-1) 50Hz (200-1)	

#### Miscellaneous

		Alternate Ap	oplication	
Refrigerant	Freq	Phase	Voltage	Application
ICFC R-22	50	1 Ø	200 V	R1 R1
ICFC R-22	60	1 Ø	208/230 V	R1
<u>IFC R-407C</u>	50	1 Ø	200 V	R1 R1
IFC R-407C	60	1 Ø	208/230 V	R1 AC
IFC R-407C	50	1 Ø	200 V	R1 AC
		Nomenc	lature	
		<u>CR24K6</u>	<u>E-PFV</u>	
Date	Data Group	Field	Old E	Data New Data
9-Nov-2020	Sound	Vibration	Ave 2.3	2.3
9-Nov-2020	Sound	Vibration	Max 3.3	3.3