# CR42K6E-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

Performa	nce	
Evaporator Temp. (°F)	45	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	39500	53600
Power (W):	3560	2900
Current (Amps):	16.7	14.5
EER(BTU/Wh):	11.1	18.5
Mass Flow (lbs/hr):	574	664
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	4.0 Avg	5.0 Max
Record Date:	2020-11-29	

#### Mechanical

Displacement (in^3/Rev):	4.40
Displacement (ft^3/Hr):	
Overall Length (in):	10.23
Overall Width (in):	9.65
Overall Height (in):	14.56
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Run Capacitor Start Capacitor Start Capacitor <b>Refrigerant</b>	014-0006-1 014-0061-1 014-0061-1	3	189.0 64.0 Alternate Ap Phase	227.0 77.0 plications Frequency	330	HIGH TORQUE
Start Capacitor	014-0006-1		64.0	77.0		
Start Capacitor	014-0006-1					
· · · · · · · · · · · · · · · · · · ·		3	189.0	227 0	330	
Pun Canacitar	014-0080-0	10	40.0	0.0	440	
Run Capacitor	014-0064-0		40.0	0.0	370	
Туре	Part No		Low MFD	High MFD	Volts	User Description
ow and High refer	to the low and	high nomina	al voltage ranges Capaci		tor is appro	ved.
UL File Date:				1984-12-28		
UL File No:						
Box IP :						
RPM:			· · ·			
RLA, MCC/1.56(us			-			
Max Operating Cu RLA, MCC/1.4(use	-	selection)(4	Amps):	22.8		
MCC (Amps):				28.5		
LRA Half Winding	(Amps):					
LRA Low*(Amps):						
LRA High* (Amps)	):			102.0		
Overall compressor	height on Cope	eland Brand	Product's s <b>pecifi</b>	<b>chi</b> mounting gron	nmets.	
Horse Power:						
Internal Free Volu	me (in^3):					
Net Weight (lbs):		/4.0				
Oil Recharge (oz):		13				
Discharge Size (in) Initial Oil Charge (		/ 2 Stub				
		8 / 4 Stub				
Suction Size (in),T						

Refrigerant	Voltage	Phase	Frequency	Application	

#### Service Parts

ReferenceComponentQuantityDescriptionComment1527-0044-081SPACER-MOUNTING ASSMI2914-006-031CAP START KITI3914-0037-181RUN CAP KIT W/CLAMPI4940-001-681RELAY KITI10918-0088-001RELAY KITI12568-201-001SERVICE KIT ASSMI1429-0060-241POWER CABLE-MOLDED PLUGI	Service Parts		
2     914-0006-03     1     CAP START KIT       3     914-0037-18     1     RUN CAP KIT W/CLAMP       4     940-0001-68     1     RELAY KIT       10     918-0088-00     1     HEATER-CRANKCASE KIT     40/49W 240       12     568-2010-00     1     C SERVICE KIT ASSM	Quantity Description Comment	Component	Reference
3     914-0037-18     1     RUN CAP KIT W/CLAMP       4     940-0001-68     1     RELAY KIT       10     918-0088-00     1     HEATER-CRANKCASE KIT     40/49W 240       12     568-2010-00     1     C SERVICE KIT ASSM	1 SPACER-MOUNTING ASSM	527-0044-08	1
4     940-0001-68     1     RELAY KIT       10     918-0088-00     1     HEATER-CRANKCASE KIT     40/49W 240       12     568-2010-00     1     C SERVICE KIT ASSM	1 CAP START KIT	914-0006-03	2
10     918-0088-00     1     HEATER-CRANKCASE KIT     40/49W 240       12     568-2010-00     1     C SERVICE KIT ASSM	1 RUN CAP KIT W/CLAMP	914-0037-18	3
12 568-2010-00 1 C SERVICE KIT ASSM	1 RELAY KIT	940-0001-68	4
	1 HEATER-CRANKCASE KIT 40/49W 240/265V FLEXIBL	918-0088-00	10
14 529-0060-24 1 POWER CABLE-MOLDED PLUG	1 C SERVICE KIT ASSM	568-2010-00	12
	1 POWER CABLE-MOLDED PLUG	529-0060-24	14
99 005-1210-00 1 COVER-TERMINAL BOX	1 COVER-TERMINAL BOX	005-1210-00	99

#### Accessories

Accessories				
Category	Part Number	Description		
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options,		
Frequency Drive	E20ENN	Frame 2		
(1) Variable	EVM-122025-	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options,		
Frequency Drive	E20ENN	Frame 3		
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No Options,		
Frequency Drive	N20MNN	Frame 2		
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI filter,		
Frequency Drive	N20MFN	No Options, Frame 2		
(1) Variable	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No		
Frequency Drive	E20EFN	Options, Frame 2		
(1) Variable	EVM-122025-	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No		
Frequency Drive	E20EFN	Options, Frame 1		
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BDN	Choke, No Options, Frame 2		

Category	Part Number	Description
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 2
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BDN	Choke, No Options, Frame 2

## Electrical Components

	Electrical Components
Part No: 071-0508-19	Stator
Usage Description: Internal Protector	Part No: 546-5081-00
Vendor Part Number	Usage Description: Stator
15HM1493	Resistance: +/-7%
Vendor Name	Start Wdg: 2.37
ТІ	Run Wdg: 0.59
Potential	Start Capacitor
Part No: 040-0166-27	Part No: 014-0006-13
Usage Description: Potential Relay	Low MFD: 189.0
<u>Vendor Part Number</u>	Type:Start Capacitor
RVA4AL6D-930	High MFD: 227.0
<u>Vendor Name</u>	Usage Description: Start Capacitor
ELECTRICA	Volts: 330
Start Capacitor	Run Capacitor
Part No: 014-0061-13	Part No: 014-0064-08
Low MFD: 64.0	Low MFD: 40.0
Type:Start Capacitor	Type:Run Capacitor
High MFD: 77.0	High MFD: 0.0
Usage Description: Start Capacitor	Usage Description: Run Capacitor
Volts: 330	Volts: 370
Run Capacitor Part No: 014-0080-06	
Low MFD: 40.0	
Type:Run Capacitor	
High MFD: 0.0	
Usage Description: Run Capacitor	
Volts: 440	

#### Nomenclature

CR42K6E-PFV
Family Series
C: CR Compressors
Application Range
R: R-22/ High Temp. A/C & Heat Pump
Capacity
42K: 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
<b>V:</b> 60Hz (208/230-1) 50Hz (200-1)

### Miscellaneous

14-Jan-2014

Sound

RefrigerantFreqPhaseVoltageApplicationHCFC R-22501 Ø200 VR1HCFC R-22601 Ø208/230 VR1HFC R-407C501 Ø200 VR1 ACHFC R-407C601 Ø208/230 VR1 ACHFC R-407C601 Ø208/230 VR1 ACDateData GroupFieldOld DataNew Data29-Nov-2020SoundDischarge Pulse Ave6.36.329-Nov-2020SoundDischarge Pulse Ave6.86.814-lan-2014SoundVibration Ave2.64			Alternate A	pplication		
HCFC R-22601 Ø208/230 VR1HFC R-407C501 Ø200 VR1 ACHFC R-407C601 Ø208/230 VR1 ACVomenclature CR42K6E-PFVR1 ACNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVDateData GroupFieldOld DataNew Data29-Nov-2020SoundDischarge Pulse Max6.36.329-Nov-2020SoundDischarge Pulse Max6.86.8	Refrigerant	Freq	Phase	Voltage	Applic	cation
HFC R-407C501 $200$ VR1 ACHFC R-407C601 $208/230$ VR1 ACNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVDateData GroupFieldOl DataNew Data29-Nov-2020SoundDischarge Pulse V6.36.329-Nov-2020SoundDischarge Pulse V6.86.8	HCFC R-22	50	1 Ø	200 V	R1	
HFC R-407C601 Ø208/230 VR1 ACNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVNomenclature CR42K6E-PFVDateData GroupFieldOld DataNew Data29-Nov-2020SoundDischarge Pulse Ave6.36.329-Nov-2020SoundDischarge Pulse Max6.86.8	HCFC R-22	60	1 Ø	208/230 V	R1	
Nomenclature CR42K6E-PFVPateData GroupFieldOld DataNew Data29-Nov-2020SoundDischarge Pulse Ave6.36.329-Nov-2020SoundDischarge Pulse Max6.86.8	HFC R-407C	50	1 Ø	200 V	R1 AC	
CR42K6E-PFV       Date     Data Group     Field     Old Data     New Data       29-Nov-2020     Sound     Discharge Pulse Ave     6.3     6.3       29-Nov-2020     Sound     Discharge Pulse Max     6.8     6.8	<u>HFC R-407C</u>	60	1 Ø	208/230 V	R1 AC	
Date       Data Group       Field       Old Data       New Data         29-Nov-2020       Sound       Discharge Pulse Ave       6.3       6.3         29-Nov-2020       Sound       Discharge Pulse Max       6.8       6.8			Nomeno	lature		
29-Nov-2020SoundDischarge Pulse Ave6.36.329-Nov-2020SoundDischarge Pulse Max6.86.8			<u>CR42K6</u>	<u>E-PFV</u>		
29-Nov-2020SoundDischarge Pulse Max6.86.8	Date	Data Group	Field		Old Data	New Data
	29-Nov-2020	Sound	Discharge Pulse Ave		6.3	6.3
14-Jan-2014 Sound Vibration Ave 2.6 4	29-Nov-2020	Sound	Discharge Pulse Max		6.8	6.8
	14-Jan-2014	Sound	Vibration Ave		2.6	4

Vibration Max

5

3.6