CR42K6E-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 460 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)	41700	54500
Power (W):	3810	3010
Current (Amps):	5.8	5
EER(BTU/Wh):	11	18.1
Mass Flow (lbs/hr):	610	700
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	4.0 Avg	5.0 Max
Record Date:	2014-03-06	

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

Mounting Height (in):	14.94
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):	69.0
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	42.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	8.9
Max Operating Current (Amps):	7.1
RLA, MCC/1.4(use for contactor selection)(Amps):	6.4
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	5.7
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
No data available in table					

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-22 HCFC	380/420	3	50	Air Conditioning
R-407C HFC	460	3	60	Air Conditioning
R-407C HFC	380/420	3	50	Air Conditioning

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
1	527-0044-08	1	SPACER-MOUNTING ASSM	
11	918-0088-01	1	HEATER-CRANKCASE KIT	40W 480V FLEXIBLE
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-3447D6-E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H1S
(1) Variable Frequency Drive	EVH-3447D6-R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X

Electrical Components

Electrical Components

Part No: 071-0663-03

Usage Description: Internal Protector

Vendor Part Number

37HM211

Vendor Name

TI

Stator

Part No: 546-2100-48

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 3.45

Run Wdg: 0.00

Stator

Part No: 546-2100-47

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 3.45

Run Wdg: 0.00

Nomenclature

CR42K6E-TFD

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

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

D: 60Hz (460-3) 50Hz (380/420-3)

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	3 Ø	380/420 V	R1 AC
HFC R-407C	60	3 Ø	460 V	R1 AC

Nomenclature

CR42K6E-TFD

Date	Data Group	Field	Old Data	New Data
14-Jan-2014	Sound	Vibration Ave	2.6	4
14-Jan-2014	Sound	Vibration Max	3.6	5
06-Mar-2014	2 Pt Perf	Cap Cond 2	54400	54500
06-Mar-2014	2 Pt Perf	EER Cond 1	10.9	11