CR47KQE-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 380/460 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

Overall Height (in):

Mounting Length (in):

Mounting Width (in):

14.81

7.50

7.50

		Performan	ce	
Evaporator Temp. (°F)			45	45
Condensing Temp. (°F)			130	100
Return Gas Temp. (°F)			65	65
Liquid Temp. (°F)			115	85
Capacity (BTU/hr)			47200	60000
Power (W):			4540	3710
Current (Amps):			6.9	6
EER(BTU/Wh):			10.4	16.1
Mass Flow (lbs/hr):			690	770
Sound Data @				
Sound Power (dBA):			76 Avg	81 Max
Vibration mils(peak-peak):			4.0 Avg	5.0 Max
Record Date:			2014-03-06	
		Mechanica	al	
Displacement (in^3/Rev):	4.95			
Displacement (ft^3/Hr):				
Overall Length (in):	10.38			
Overall Width (in):	9.09			

Suction Size (in), Type:7 / 8 StubPicklarge Size (in), Type:1 / 2 StubInitial Oil Charge Size (in), Type:4 -Oil Recharge Coz:4 -Oil Recharge Coz:7 / 0Net Weight (lbs:7 / 0Those Power:50 -Internal Free Volume (In* 3):Internal Free Volume (In* 3): <th c<="" th=""><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th></th> <th></th>					
Discharge Size (in), Type:1/2 StubInitial Oil Charge (core):3Oil Recharge Size (in):7Oil Recharge Size (in):7Net Weight (the):7Total7Internal Free Volumetino Size (in):5Retarge Normer5Retarge Normer5Retarge Normer5Retarge Normer5Retarge Normer11.5Retarge Normer <th>Mounting Height (in):</th> <th>15.19</th> <th></th> <th></th> <th></th>	Mounting Height (in):	15.19				
Initial Oil Charge (oz):45Oil Recharge (oz):3Oil Recharge (oz):77.0Internal Free Volume (inv 3):Internal Free Volume (inv 3):Respersone:Coverall compressor height of the series of the se	Suction Size (in),Type:	7 / 8 Stub				
Oil Recharge (oz):43Net Weight (libs):77.0Internal Free Volume (inv 3):Internal Free Volume (inv 3):	Discharge Size (in),Type	: 1 / 2 Stub				
Net Weight (lbs): 77.0 Internal Free Volume (in*3): Horse Power: Horse Power: Overall compressor height on Copeland Brand Product's greefined/multiping grommets. LRA High* (Amps): LRA High* (Amps): LRA Low*(Amps): LRA Low*(Amps): LRA Kaff Winding (Amps): LRA High* (Amps): LRA Kaff Winding (Amps): LRA Kaff Winding (Amps): LRA Mage (A	Initial Oil Charge (oz):	45				
Internal Free Volume (in^3): Horse Power: Brain Product's specified in Copeland Brand Product's specified in Copeland Bran	Oil Recharge (oz):	43				
Harse Power: Solo LRA High* (Amps): 500 LRA High* (Amps): 500 LRA High* (Amps): 500 LRA Haif Windimg (Amps): 110 Max Operating Current (Amps): 110 RA, MCC/1.4 (use for borator selection) (Amps): 62 RIA, MCC/1.5 (use for borator selection) (Amps): 74 RPM: 74 Box IP : 74 IF Ie Date: 500 UF Iei No: 500 UF Iei No: 500 Topa Part No 74 Fage and High refer to the Journal High nomical selectors and High nomical sele	Net Weight (lbs):	77.0				
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LRA Half Winding (Amps): 11.5 Max Operating (Amps): 11.5 Max Operating (Amps): 11.1 RLA, MCC/1.4(use for contactor selection)(Amps) 74 RIA, MCC/1.5(use for torus t	LRA High* (Amps):			50.0		
MCC (Amps): 11.5 Max Operating Current (Amps): 11.1 RLA, MCC/1-tuse for transer as wire size selection)(Amps): 8.2 RLA, MCC/1.56(use for braker as wire size selection)(Amps): 7.4 RPM: 7.4 Box IP : 7.4 UL File No: 7.4 UL File Date: 7.4 Type Part No MCP MFP Votage Migh MFP Votage Mergen Refrigerant Notage Mage Refrigerant Notage Pase Application R-22 HCFC 380/420 3 50 Air Conditioning R-22 HCFC 380/420 3 60 High Temp	LRA Low*(Amps):					
Max Operating Current (Amps): 11.1 RLA, MCC/1.4(use for cortactor selection)(Amps): 2.2 RLA, MCC/1.5(use for breaker & wire size selection)(Amps): 7.4 RPM: Box IP : UI File No: UI File No: UI File Date: Type Par No Low MFD Migh rominal voltage ranges for which the motor is approved. Type Par No Low MFD Migh MFD Voltage ranges for which the motor is approved. Type Par No Low MFD Migh MFD Voltage ranges for which the motor is approved. Type Par No Low MFD Migh MFD Voltage ranges for which the motor is approved. Refrigerant Voltage for MFD Migh MFD Advection (Mighting) Advection (M	LRA Half Winding (Amp	s):				
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RLA, MCC/1.56(use for breaker & wire size selection)(Amps): 7.4 RPM: Box IP : UL File No: UL File Date: Low and High refer to the low and high nominal victurge ranges for which the motor is approved. Capacitors Type Part No Low MFD High MFD Volts User Description No data available in table: Refrigerant Voltage Phase Frequency Application R-22 HCFC 10 880/420 3 00 Fo 00 Air Conditioning R-22 HCFC 10 880/420 3 00 Fo 00 High Temp	Max Operating Current	(Amps):		11.1		
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And Terminal Stress of the	RLA, MCC/1.56(use for b	oreaker & wire size	selection)(An	ıps): 7.4		
Y Y	RPM:					
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R-22 HCFC 380/420 3 50 Air Conditioning R-22 HCFC 380/420 3 50 High Temp R-22 HCFC 380/460 3 60 High Temp			Alternate	Applications		
R-22 HCFC 380/420 3 50 High Temp R-22 HCFC 380/460 3 60 High Temp	Refrigerant	Voltage	Phase	Frequency	Application	
R-22 HCFC 380/460 3 60 High Temp	R-22 HCFC	380/420	3	50	Air Conditioning	
	R-22 HCFC	380/420	3	50	High Temp	
R-22 HCFC 380/420 3 50 UL High Temp	R-22 HCFC	380/460	3	60	High Temp	
	R-22 HCFC	380/420	3	50	UL High Temp	

R-22 HCFC 380/460			
) 3	60	UL High Temp
R-404A HFC 380/420) 3	50	High Temp
R-407C HFC 380/420) 3	50	Air Conditioning

Service Parts

			Service Parts	
leference	Component	Quantity	Description	Comment
9	005-1210-00	1	COVER-TERMINAL BOX	
9	527-0044-00	1	SPACER-MOUNTING ASSM	
9	918-0088-01	1	HEATER-CRANKCASE KIT	40W 480V FLEXIBLE

Accessories

Accessories				
Category	Part Number	Description		
(1) Variable	EVH-344009-	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BDN	Choke, No Options, Frame 1		
(1) Variable	EVH-344009-	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 1		
(1) Variable	EVH-344009-	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BDN	Choke, No Options, Frame 1		
(1) Variable	EVH-344009-	EVH, 3Ø, 380-480v, Output 380-480v@9A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 1		

Electrical Components

Electrical	Components
Part No: 071-0663-00	Stator
Usage Description: Internal Protector	Part No: 546-2100-45
Vendor Part Number	Usage Description: Stator
37HM209	Resistance: +/-7%

Vendor Name	Start Wdg: 3.22
ТІ	Run Wdg: 0.00
Stator	
Part No: 546-2100-46	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 3.22	
Run Wdg: 0.00	

Nomenclature

Family Series	
C: CR Compressors	
Application Range	
R: R-22/ High Temp. A/C & Heat Pump	
Capacity	
47K: Capacity	
Model Variation	
Q: Quiet Compressor	
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 A	pplication	
Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	60	3 Ø	380/460 V	R1 HT
HCFC R-22	50	3 Ø	380/420 V	R1 AC
HCFC R-22	50	3 Ø	380/420 V	R1 HT
HCFC R-22	50	3 Ø	380/420 V	R1 R1

Refrigerant	Freq	Phase Vo	oltage A	pplication
HCFC R-22	60	3 Ø 38	30/460 V R	1 R1
HFC R-404A	50	3 Ø 38	30/420 V R	1 HT
<u>HFC R-407C</u>	50	3 Ø 38 Nomenclature	30/420 V R	1 AC
		<u>CR47KQE-TFD</u>		
Date	Data Group	Field	Old Data	New Data
14-Jan-2014	Sound	Vibration Ave	3	4
14-Jan-2014	Sound	Vibration Max	4.5	5
14-Jan-2014 12-Aug-2011	Sound RatingRefNo	Vibration Max RatingRefNo	4.5	5 NA
			4.5 59900	