CR53KQE-TFD

HCFC, R-22, 60 Hz, 3 - Phase, 380/460 V . Also Available with Variable Frequency Drives

High Temp

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	20
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	130	120
Capacity (BTU/hr)	48800	29100
Power (W):	5160	3830
Current (Amps):	8	6.3
EER(BTU/Wh):	9.4	7.6
Mass Flow (lbs/hr):	770	426
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	4.0 Avg	5.0 Max
Record Date:	2014-02-26	

М	ech	ani	cal
141	ecii	am	cai

Displacement (in^3/Rev):	5.47
Displacement (ft^3/Hr):	
Overall Length (in):	10.63
Overall Width (in):	9.22
Overall Height (in):	14.81
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	15.19			
Suction Size (in),Type:	7 / 8 Stub			
Discharge Size (in),Type:	1 / 2 Stub			
Initial Oil Charge (oz):	45			
Oil Recharge (oz):	43			
Net Weight (lbs):	77.0			
Internal Free Volume (in^3)):			
Horse Power:				
*Overall compressor height on	Copeland Brand F	Product's Flecifie	a mounting g	rommets.
LRA High* (Amps):			55.0	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			12.7	
Max Operating Current (An	nps):		12.7	
RLA, MCC/1.4(use for conta	actor selection)(A	mps):	9.1	
RLA, MCC/1.56(use for brea	aker & wire size s	election)(Amps)	8.1	
RPM:				
Box IP :				
UL File No:				
UL File Date:				
*Low and High refer to the low	and high nomina	l voltage ranges fo	or which the r	motor is approved.
		Capacito	ors	
Type Part No	Low MFD	High MFC) Volt	s User Description
No data available in table				
		Alternate App	lications	
Refrigerant	Voltage	Phase	Frequency	Application
R-22 HCFC	380/420	3	50	Air Conditioning
R-22 HCFC	380/460	3	60	Air Conditioning
	,			
R-22 HCFC	380/420	3	50	High Temp

R-407C HFC 380/420	3	50	Air Conditioning

Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
99	527-0044-00	1	SPACER-MOUNTING ASSM	
99	918-0088-01	1	HEATER-CRANKCASE KIT	40W 480V FLEXIBLE

Accessories

		Accessories
Category	Part Number	Description
(1) Variable Frequency Drive	EVH-344012- R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X

Electrical Components

Electrical Components				
Part No: 071-0501-48	Stator			
Usage Description: Internal Protector	Part No: 546-2061-76			
Vendor Part Number	Usage Description: Stator			
34HM507	Resistance: +/-7%			
Vendor Name	Start Wdg: 2.77			
т.і.	Run Wdg: 0.00			
Stator				
Part No: 546-2100-10				
Usage Description: Stator				
Resistance: +/-7%				
Start Wdg: 2.77				
Run Wdg: 0.00				

Nomenclature

Family Series	
C: CR Compressors	
Application Range	
R: R-22/ High Temp. A/C & Heat Pump	
Capacity	
53K: 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 Application					
Refrigerant	Freq	Phase	Voltage	Application	
HCFC R-22	50	3 Ø	380/420 V	R1 AC	
HCFC R-22	60	3 Ø	380/460 V	R1 R1	
HCFC R-22	50	3 Ø	380/420 V	R1 HT	
HCFC R-22	60	3 Ø	380/460 V	R1 AC	
HFC R-407C	50	3 Ø	380/420 V	R1 AC	
HFC R-407C	60	3 Ø	380/460 V	R1 AC	

Nomenclature

CR53KQE-TFD

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
12-Aug-2011	RatingRefNo	RatingRefNo		NA

06-Mar-2014 2 Pt Perf Cap Cond 1 53200 53000 06-Mar-2014 2 Pt Perf Cap Cond 2 67300 67500 06-Mar-2014 2 Pt Perf Watts Cond 1 5210 5200	Date	Data Group	Field	Old Data	New Data
· · · · · · · · · · · · · · · · · · ·	06-Mar-2014	2 Pt Perf	Cap Cond 1	53200	53000
06-Mar-2014 2 Pt Perf Watts Cond 1 5210 5200	06-Mar-2014	2 Pt Perf	Cap Cond 2	67300	67500
	06-Mar-2014	2 Pt Perf	Watts Cond 1	5210	5200