# CR53KQE-TF5

HCFC, R-22, 60 Hz, 3 - Phase, 200/230 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

Performance						
<b>Evaporator Temp. (°F)</b> 45 45						
Condensing Temp. (°F)	130	100				
Return Gas Temp. (°F)	65	65				
Liquid Temp. (°F)	115	85				
Capacity (BTU/hr)	53000	67500				
Power (W):	5200	4290				
Current (Amps):	16	14				
EER(BTU/Wh):	10.2	15.7				
Mass Flow (lbs/hr):	780	870				
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): 5.47						

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 <b>specifiec</b> al	mountin	g grommets.	
LRA High* (Amps):			107		
LRA Low*(Amps):					
LRA Half Winding (Amp	s):				
MCC (Amps):			25.5		
Max Operating Current	(Amps):				
RLA, MCC/1.4(use for co	ontactor selection)(A	18.2			
RLA, MCC/1.56(use for b	oreaker & wire size s				
RPM:					
Box IP :					
UL File No:					
UL File Date:					
Low and High refer to the	low and high nomina	l voltage ranges for	which t	he motor is app	roved.
		Capacitor	s		
Type Part No	o Low MFD	High MFD	v	/olts	User Description
No data available in table					
		Alternate Appli	cations		
Refrigerant	Voltage	Phase	Frequ	lency	Application
R-22 HCFC	200/240	3	50		Air Conditioning
R-22 HCFC	200/230	3	60		High Temp
R-22 HCFC	200/240	3	50		High Temp
R-22 HCFC	200/240	3	50		UL High Temp

Refrigerant	Voltage Phase Frequency		Frequency	Application
R-407C HFC	200/230	3	60	Air Conditioning

## Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
99	527-0044-00	1	SPACER-MOUNTING ASSM	
99	918-0088-00	1	HEATER-CRANKCASE KIT	40/49W 240/265V FLEXIBLE

#### 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		
(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		
(1) Variable	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 2		

Electrical Components					
Part No: 071-0501-53	Stator				
Usage Description: Internal Protector	Part No: 546-2061-72				
Vendor Part Number	Usage Description: Stator				
34HM402	Resistance: +/-7%				
Vendor Name	Start Wdg: 0.71				
Т.І.	Run Wdg: 0.00				
Stator					
Part No: 546-2061-77					
Usage Description: Stator					
Resistance: +/-7%					
Start Wdg: 0.71					
Run Wdg: 0.00					

## Nomenclature

## Miscellaneous

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	3 Ø	200/240 V	R1 R1
HCFC R-22	50	3 Ø	200/240 V	R1 HT
HCFC R-22	50	3 Ø	200/240 V	R1 AC
HCFC R-22	60	3 Ø	200/230 V	R1 HT
<u>HFC R-407C</u>	60	3 Ø	200/230 V	R1 AC
<u>HFC R-407C</u>	50	3 Ø	200/240 V	R1 AC

#### Nomenclature

#### CR53KQE-TF5

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
31-Oct-2016	2 Pt Perf	Max Cond	-1	140
31-Oct-2016	2 Pt Perf	Max Evap	-1	45
31-Oct-2016	2 Pt Perf	Min Cond	-1	80
31-Oct-2016	2 Pt Perf	Min Evap	-1	0
06-Mar-2014	2 Pt Perf	Amp Cond 2	13.9	14
06-Mar-2014	2 Pt Perf	Cap Cond 1	53200	53000
06-Mar-2014	2 Pt Perf	EER Cond 1	10.1	10.2
06-Mar-2014	2 Pt Perf	EER Cond 2	15.6	15.7