

CR47KQE-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		
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	60500
Power (W):	4540	3720
Current (Amps):	13.7	11.9
EER(BTU/Wh):	10.4	16.3
Mass Flow (lbs/hr):	690	780
Sound Data @		
Sound Power (dBA):	78 Avg	83 Max
Vibration mils(peak-peak):	4.0 Avg	5.0 Max
Record Date:	2014-03-06	
Mechanical		
Displacement (in^3/Rev):	4.95	
Displacement (ft^3/Hr):		
Overall Length (in):	10.38	
Overall Width (in):	9.09	
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 Product's specified mounting grommets.

LRA High* (Amps):	97.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	22.5
Max Operating Current (Amps):	
RLA, MCC/1.4(use for contactor selection)(Amps):	16.1
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	14.4
RPM:	
Box IP :	
UL File No:	
UL File Date:	

*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	200/240	3	50	Air Conditioning
R-22 HCFC	200/240	3	50	High Temp
R-22 HCFC	200/230	3	60	High Temp
R-407C HFC	200/230	3	60	Air Conditioning

Refrigerant	Voltage	Phase	Frequency	Application
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Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
99	005-1210-00	1	COVER-TERMINAL BOX	
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 Frequency Drive	EVM-322017-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122017-E20ENN	EVM, 1Ø, 200-240v, Output 200-240v@17A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322017-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122017-E20EFN	EVM, 1Ø, 200-240v, Output 200-240v@17A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322017-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@17A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2

Electrical Components

Electrical Components	
Part No: 071-0501-53	Stator
Usage Description: Internal Protector	Part No: 546-2100-04
<u>Vendor Part Number</u>	Usage Description: Stator
34HM402	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.82
T.I.	Run Wdg: 0.00
Stator	
Part No: 546-2100-11	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 0.82	
Run Wdg: 0.00	

Nomenclature

CR47KQE-TF5
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
5: 60Hz (200/230-3) 50Hz (200/240-3)

Miscellaneous

Alternate Application

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

Nomenclature

[CR47KQE-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