CRPQ-045E-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)	57000	72000
Power (W):	5650	4490
Current (Amps):	16.1	13.2
EER(BTU/Wh):	10.1	16.1
Mass Flow (lbs/hr):	835	930
Sound Data @		
Sound Power (dBA):	79 Avg	84 Max
Vibration mils(peak-peak):	5.0 Avg	6.0 Max
Record Date:	2014-03-06	

Mechanical	
Displacement (in^3/Rev):	5.82
Displacement (ft^3/Hr):	
Overall Length (in):	11.38
Overall Width (in):	9.38
Overall Height (in):	15.88
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	16.25
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	70
Oil Recharge (oz):	66
Net Weight (lbs):	82.0
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	105.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	27.5
Max Operating Current (Amps):	
RLA, MCC/1.4(use for contactor selection)(Amps):	19.6
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	17.6
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	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-407C HFC		3	50	Air Conditioning

Refrigerant	Voltage	Phase	Frequency	Application

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
99	521-0191-00	1	TERMINAL-SCREW GROUP	
99	521-0192-00	1	TERMINAL KIT	
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	918-0088-04	1	HEATER-CRANKCASE KIT	45/55W 240/265V FLEXIBLE
99	921-0227-00	1	CONNECTOR BLOCK KIT	

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322025-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122025-E20ENN	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-322025-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322025-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-322025-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No Options, Frame 2
(1) Variable Frequency Drive	EVM-122025-E20EFN	EVM, 1Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322025-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322025-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2

Category	Part Number	Description

Electrical Components

Electrical Components

Part No: 071-0428-07

Usage Description: Internal Protector

Vendor Part Number

32HM43-63

Vendor Name

T I

Part No: 071-0526-04

Usage Description: Internal Protector

Vendor Part Number

35HM122-12

Vendor Name

T I

Stator

Part No: 046-5044-06

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.79

Run Wdg: 0.00

Stator

Part No: 046-3088-08

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.71

Run Wdg: 0.00

Nomenclature

CRPQ-045E-TF5

Family Series

C: CR Compressors

Application Range

R: R-22/ High Temp. A/C & Heat Pump

Capacity

: Capacity

Oil Type

: --

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	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
HFC R-407C	50	3 Ø	V	AC
HFC R-407C	60	3 Ø	V	AC

Nomenclature

CRPQ-045E-TF5

Date	Data Group	Field	Old Data	New Data
14-Jan-2014	Sound	Vibration Ave	2	5
14-Jan-2014	Sound	Vibration Max	3	6
05-Jun-2014	2 Pt Perf	MassFlow Cond 1	860	865
05-Jun-2014	2 Pt Perf	MassFlow Cond 2	464	466
06-Mar-2014	2 Pt Perf	Amp Cond 1	16	16.1
06-Mar-2014	2 Pt Perf	Cap Cond 2	72100	72000
06-Mar-2014	2 Pt Perf	Watts Cond 1	5640	5650