

# ZR48K5E-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	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	48200	62500
Power (W):	4160	2840
Current (Amps):	12	9.3
EER(BTU/Wh):	11.6	22
Mass Flow (lbs/hr):	705	800
Sound Data @ 45 / 130		
Sound Power (dBA):	73 Avg	78 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-13	
Mechanical		
Displacement (in <sup>3</sup> /Rev):	3.87	
Displacement (ft <sup>3</sup> /Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	16.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	17.17
<b>Suction Size (in),Type:</b>	7 / 8 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	42
<b>Oil Recharge (oz):</b>	34
<b>Net Weight (lbs):</b>	69.1
<b>Internal Free Volume (in^3):</b>	193

**Horse Power:**

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

<b>LRA High* (Amps):</b>	114.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	24
<b>Max Operating Current (Amps):</b>	17.50
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	17.1
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	15.4
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA-2337

**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	200/220	3	50	Air Conditioning
R-407C HFC	200/220	3	50	Air Conditioning
R-407C HFC	200/230	3	60	Air Conditioning

## Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
2	527-0116-00	1	SPACER-MOUNTING ASSM	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

## 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	EVH-322025-R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVH-322025-R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(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
(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-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-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5% DC Link Choke + 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-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-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No Options, Frame 2

## Electrical Components

## Electrical Components

Part No: 071-0501-67

Usage Description: Internal Protector

Vendor Part Number

34HM407

Vendor Name

SENSATA

Part No: 071-0572-44

Usage Description: Internal Protector

Vendor Part Number

UP18KY332-220

Vendor Name

UBUKATA

Part No: 071-0613-16

Usage Description: Internal Protector

Vendor Part Number

34HM415

Vendor Name

SENSATA

### Stator

Part No: 546-2112-01

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.86

Run Wdg: 0.00

### Stator

Part No: 546-2090-07

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.68

Run Wdg: 0.00

### Stator

Part No: 846-2112-01

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.86

Run Wdg: 0.00

## Nomenclature

ZR48K5E-TF5

### Family Series

**Z:** Scroll

### Application Range

**R:** A/C - R-22/407C/134a

### Capacity

**48K:** Capacity Multiplier-1000

### Oil Type

**E:** Polyol Ester

**Motor Type****T:** 3 Phase**Motor Protection****F:** Internal Inherent Protection**Voltage****5:** 60Hz (200/230-3) 50Hz (200/220-3)

## Miscellaneous

## Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
<a href="#">HCFC R-22</a>	50	3 Ø	200/220 V	R1 AC
<a href="#">HFC R-407C</a>	50	3 Ø	200/220 V	R1 AC
<a href="#">HFC R-407C</a>	60	3 Ø	200/230 V	R1 AC

## Nomenclature

[ZR48K5E-TF5](#)

Date	Data Group	Field	Old Data	New Data
13-Oct-2015	Rating	PubCode		Y