

# ZR28K5E-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)	28400	36900
Power (W):	2590	1755
Current (Amps):	8	6.25
EER(BTU/Wh):	11	21
Mass Flow (lbs/hr):	417	472
Sound Data @ 45 / 130		
Sound Power (dBA):	68 Avg	73 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2015-10-12	
Mechanical		
Displacement (in^3/Rev):	2.36	
Displacement (ft^3/Hr):		
Overall Length (in):	9.50	
Overall Width (in):	9.50	
Overall Height (in):	15.86	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	16.08
<b>Suction Size (in),Type:</b>	3 / 4 Stub
<b>Discharge Size (in),Type:</b>	1 / 2 Stub
<b>Initial Oil Charge (oz):</b>	25
<b>Oil Recharge (oz):</b>	19
<b>Net Weight (lbs):</b>	49.6
<b>Internal Free Volume (in^3):</b>	118
<b>Horse Power:</b>	2.5

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

<b>LRA High* (Amps):</b>	73.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	15.5
<b>Max Operating Current (Amps):</b>	11.0
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	11.1
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	9.9
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA-2337
<b>UL File Date:</b>	

\*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	918-0052-00	1	CRANKCASE HEATER KIT	240V 40W WRAP AROUND
1	918-0052-01	1	CRANKCASE HEATER KIT	120V 40W WRAP AROUND
2	527-0044-15	1	SPACER - MOUNTING ASSM	
14	529-0060-24	1	POWER CABLE-MOLDED PLUG	

Accessories

Accessories		
Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322012-R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322012-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322012-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-322012-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@12A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
Crankcase Heaters	018-0094-00	Crankcase Heater, 240V, 40W
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W
Crankcase Heaters	018-0094-03	Crankcase Heater, 480V, 40W, 21.25" Lead Length
Crankcase Heaters	018-0094-04	Crankcase Heater, 575V, 40W, 21.25" Lead Length
Crankcase Heaters	018-0094-00	Crankcase Heater, 240V, 40W
Crankcase Heaters	018-0094-01	Crankcase Heater, 120V, 40W

Electrical Components

Electrical Components
Part No: 071-0572-12
Usage Description: Internal Protector

Vendor Part Number

UP18NY032-550

Vendor Name

UBUKATA

## Nomenclature

ZR28K5E-TF5

**Family Series**

**Z:** Scroll

**Application Range**

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

**Capacity**

**28K:** 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

[ZR28K5E-TF5](#)

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