

# ZP122KCE-TF5

HFC, R-410A, 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	35
Condensing Temp. (°F)	130	120
Return Gas Temp. (°F)	65	55
Liquid Temp. (°F)	115	105
Capacity (BTU/hr)	124000	110500
Power (W):	11000	9700
Current (Amps):	30.85	28.25
EER(BTU/Wh):	11.3	11.4
Mass Flow (lbs/hr):	1800	1520
Sound Data @		
Sound Power (dBA):	76 Avg	81 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2017-11-07	
Mechanical		
Displacement (in^3/Rev):	6.85	
Displacement (ft^3/Hr):		
Overall Length (in):	11.70	
Overall Width (in):	10.33	
Overall Height (in):	22.00	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	22.75
<b>Suction Size (in),Type:</b>	1 1 / 8 Stub
<b>Discharge Size (in),Type:</b>	7 / 8 Stub
<b>Initial Oil Charge (oz):</b>	85
<b>Oil Recharge (oz):</b>	81
<b>Net Weight (lbs):</b>	107.6
<b>Internal Free Volume (in^3):</b>	440

#### Horse Power:

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

#### Electrical

<b>LRA High* (Amps):</b>	240.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	53
<b>Max Operating Current (Amps):</b>	40.5
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	37.9
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	34.0
<b>RPM:</b>	3500
<b>Box IP :</b>	21
<b>UL File No:</b>	SA2337
<b>UL File Date:</b>	2012-06-20

\*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-410A HFC	200/220	3	50	Air Conditioning

### Service Parts

Reference	Component	Quantity	Description	Comment
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
9	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	DISCHARGE ROTALOCK
11	998-0010-00	1	SIGHTGLASS KIT	
14	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK
14	998-0034-10	1	ADAP KIT 13/4 RL / 11/8"SWT	SUCTION ROTALOCK TO SWEAT
99	527-0221-00	1	SPACER-MOUNTING ASSM	
99	529-0099-00	1	POWER CABLE-MOLDED PLUG	
99	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
99	921-0227-00	1	CONNECTOR BLOCK KIT	

### Accessories

### Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322048-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Pro, IP20, Standard, No Options, Frame 4
(1) Variable Frequency Drive	EVH-322048-R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(1) Variable Frequency Drive	EVH-322048-R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048-R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048-R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 3
(1) Variable Frequency Drive	EVH-322048-R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@48A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency Drive	EVM-322048-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Pro, IP20, With add on EMI filter, No Options, Frame 4
(1) Variable Frequency Drive	EVM-322048-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Basic, IP20, With add on EMI filter, No Options, Frame 4

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322048-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@48A, Basic, IP20, Standard, No Options, Frame 4

Electrical Components

Electrical Components	
Part No: 071-0505-43	<b>Stator</b>
Usage Description: Internal Protector	Part No: 546-2143-00
<u>Vendor Part Number</u>	Usage Description: Stator
32HM1556	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 0.36
SENSATA	Run Wdg: 0.00

Nomenclature

ZP122KCE-TF5
<div>Family Series</div> <div>Z: Scroll</div> <div>Application Range</div> <div>P: A/C - R-410A/B</div> <div>Capacity</div> <div>122K: Capacity Multiplier-1000</div> <div>Oil Type</div> <div>E: Polyol Ester</div> <div>Motor Type</div> <div>T: 3 Phase</div> <div>Motor Protection</div> <div>F: Internal Inherent Protection</div> <div>Voltage</div> <div>5: 60Hz (200/230-3) 50Hz (200/220-3)</div>

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
<a href="#">HFC R-410A</a>	50	3 Ø	200/220 V	R1 AC
Nomenclature				
<a href="#">ZP122KCE-TF5</a>				

Date	Data Group	Field	Old Data	New Data
20-Mar-2013	Rating	PubCode		Y
01-Apr-2013	Elec	Hi LRA	251.8	240.0
23-Mar-2017	2 Pt Perf	MassFlow Cond 1	1830	1800
23-Mar-2017	2 Pt Perf	MassFlow Cond 2	1540	1520
01-Apr-2013	2 Pt Perf	Amp Cond 2	24.65	28.25
01-Apr-2013	2 Pt Perf	Cap Cond 2	151000	110500
01-Apr-2013	2 Pt Perf	EER Cond 2	19.3	11.4
01-Apr-2013	2 Pt Perf	MassFlow Cond 2	1870	1540
01-Apr-2013	2 Pt Perf	Ret Gas Cond 2	65	55
01-Apr-2013	2 Pt Perf	Watts Cond 2	7830	9700