

# ZPD154KCE-TED

HFC, R-410A, 60 Hz, 3 - Phase, 460 V

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)	155000	138000
Power (W):	14100	12400
Current (Amps):	21.3	19.4
EER(BTU/Wh):	11	11.1
Mass Flow (lbs/hr):	2290	1930
Sound Data @		
Sound Power (dBA):	80 Avg	85 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2016-06-27	
Mechanical		
Displacement (in^3/Rev):	8.72	
Displacement (ft^3/Hr):		
Overall Length (in):	12.94	
Overall Width (in):	11.73	
Overall Height (in):	22.21	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

<b>Mounting Height (in):</b>	23.02
<b>Suction Size (in),Type:</b>	1 3 / 8 Stub
<b>Discharge Size (in),Type:</b>	7 / 8 Stub
<b>Initial Oil Charge (oz):</b>	114
<b>Oil Recharge (oz):</b>	110
<b>Net Weight (lbs):</b>	144.0
<b>Internal Free Volume (in^3):</b>	
<b>Horse Power:</b>	

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

<b>LRA High* (Amps):</b>	150.0
<b>LRA Low*(Amps):</b>	
<b>LRA Half Winding (Amps):</b>	
<b>MCC (Amps):</b>	36
<b>Max Operating Current (Amps):</b>	27.0
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	25.7
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	23.1
<b>RPM:</b>	3500
<b>Box IP :</b>	54
<b>UL File No:</b>	SA-2337
<b>UL File Date:</b>	2007-02-07

\*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	460	3	60	A/C, 50% Load Of Compressor Model
R-410A HFC	380/420	3	50	A/C, 50% Load Of Compressor Model
R-410A HFC	380/420	3	50	Air Conditioning

Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
99	527-0210-00	1	MOUNTING SPACER ASSM	
99	910-0182-00	1	VALVE-SOLENOID	
99	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
99	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
99	918-0047-02	1	HEATER-CRANKCASE	480V, 90W, WRAP AROUND
99	971-0064-05	1	KIT -115/240V MODULE	120/240V MODULE
99	971-0065-04	1	KIT 24 V MODULE	24V MODULE
99	985-0200-00	1	THERMISTOR KIT	
99	998-0010-00	1	SIGHTGLASS KIT	

Accessories

Accessories		
Category	Part Number	Description
Digital Components	543-0024-01	Digital Compressor Controller
Digital Components	998-0060-09	240V Digital Solenoid Coil

Electrical Components

Electrical Components
Part No: 571-0064-06
Usage Description: Modular Protector
<u>Vendor Part Number</u>
14800070
<u>Vendor Name</u>

WKK

Part No: 571-0065-05

Usage Description: Modular Protector

Vendor Part Number

14800170

Vendor Name

WKK

**Stator**

Part No: 046-0124-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.08

Run Wdg: 0.00

Nomenclature

ZPD154KCE-TED
<b>Family Series</b>
<b>Z:</b> Scroll
<b>Application Range</b>
<b>P:</b> A/C - R-410A/B
<b>Modulation</b>
<b>D:</b> Digital
<b>Capacity</b>
<b>154K:</b> Capacity Multiplier-1000
<b>Oil Type</b>
<b>E:</b> Polyol Ester
<b>Motor Type</b>
<b>T:</b> 3 Phase
<b>Motor Protection</b>
<b>E:</b> External Enhanced Protection
<b>Voltage</b>
<b>D:</b> 60Hz (460-3) 50Hz (380/420-3)

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application

Refrigerant	Freq	Phase	Voltage	Application
<a href="#">HFC R-410A</a>	60	3 Ø	460 V	R1 A5
<a href="#">HFC R-410A</a>	50	3 Ø	380/420 V	R1 A5
		Nomenclature		
		<a href="#">ZPD154KCE-TED</a>		
Date	Data Group	Field	Old Data	New Data
18-Mar-2014	Sound	Sound Ave		80
18-Mar-2014	Sound	Sound Max		85
18-Mar-2014	Sound	Sound Start		85
18-Mar-2014	Sound	Sound Start Max		93
18-Mar-2014	Sound	Sound Stop		82
18-Mar-2014	Sound	Sound Stop Max		90
18-Mar-2014	Sound	Vibration Ave		3
18-Mar-2014	Sound	Vibration Max		4.5
28-Jun-2016	2 Pt Perf	Amp Cond 2	17	19.4
28-Jun-2016	2 Pt Perf	Cap Cond 2	190000	138000