# ZPD120KCE-TFD

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)	123000	109500
Power (W):	11100	9860
Current (Amps):	16.7	15.2
EER(BTU/Wh):	11.1	11.1
Mass Flow (lbs/hr):	1815	1530
Sound Data @		
Sound Power (dBA):	79 Avg	84 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2017-03-22	
	Mechanical	

Displacement (in^3/Rev):	6.93
Displacement (ft^3/Hr):	
Overall Length (in):	11.54
Overall Width (in):	11.23
Overall Height (in):	21.00
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in): Suction Size (in),Type:	21.75			
Suction Size (in) Type:				
Suction Size (iii), Type:	1 3 / 8 Stub			
Discharge Size (in),Type:	7 / 8 Stub			
Initial Oil Charge (oz):	110			
Oil Recharge (oz):	106			
Net Weight (lbs):	136.0			
Internal Free Volume (in^3)	):			
Horse Power:				
*Overall compressor height on	Copeland Brand Pr	oduct's s <b>ciecifisca</b> i	nounting gromn	nets.
LRA High* (Amps):			125.0	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			28	
Max Operating Current (An	nps):		22.0	
RLA, MCC/1.4(use for conta	actor selection)(Ar	nps):	20.0	
RLA, MCC/1.56(use for brea	aker & wire size se	election)(Amps):	17.9	
RPM:			3500	
Box IP :			21	
UL File No:			SA-2337	
			2007-02-07	
UL File Date:				
	and high nominal	voltage ranges for	which the moto	r is approved.
UL File Date:	and high nominal	voltage ranges for Capacitor		r is approved.
UL File Date:	and high nominal			r is approved. <b>User Description</b>
<b>UL File Date:</b> *Low and High refer to the low		Capacitor	5	
UL File Date: *Low and High refer to the low Type Part No		Capacitor	s Volts	
UL File Date: *Low and High refer to the low <b>Type Part No</b> No data available in table		Capacitor: High MFD	s Volts	
UL File Date: *Low and High refer to the low Type Part No No data available in table Refrigerant	Low MFD	Capacitor High MFD Alternate Applie	s Volts ations	User Description
UL File Date:   *Low and High refer to the low   Type   Part No   No data available in table   Refrigerant   R-410A HFC	Low MFD Voltage	Capacitor High MFD Alternate Applie Phase	volts ations Frequency	User Description Application A/C, 50% Load Of

### Service Parts

			Service Parts	
Reference	Component	Quantity	Description	Comment
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0099-00	1	POWER CABLE-MOLDED PLUG	
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	921-0227-00	1	CONNECTOR BLOCK KIT	
99	985-0200-00	1	THERMISTOR KIT	
99	998-0010-00	1	SIGHTGLASS KIT	

### Accessories

Accessories				
Part Number	Description			
543-0024-01	Digital Compressor Controller			
998-0060-09	240V Digital Solenoid Coil			
	<b>Part Number</b> 543-0024-01			

## Electrical Components

	Electrical Components
Part No: 071-0519-34	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
35HM528	
Vendor Name	

### SENSATA

SENSIN	
Part No: 071-0519-58	Stator
Usage Description: Internal Protector	Part No: 546-2081-44
Vendor Part Number	Usage Description: Stator
35HM550	Resistance: +/-7%
Vendor Name	Start Wdg: 1.24
SENSATA	Run Wdg: 0.00
Stator	
Part No: 546-2111-02	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 1.27	
Run Wdg: 0.00	

### Nomenclature

Family Series	
Z: Scroll	
Application Range	
<b>P:</b> A/C - R-410A/B	
Modulation	
D: Digital	
Capacity	
120K: Capacity Multiplier-1000	
Oil Type	
E: Polyol Ester	
Motor Type	
T: 3 Phase	
Motor Protection	
F: Internal Inherent Protection	
Voltage	
D: 60Hz (460-3) 50Hz (380/420-3)	

### Miscellaneous

		Alternate A	pplication		
Refrigerant	Freq	Phase	Voltage	Application	

Refrigerant	Freq	Phase	Voltage	Application	
<u>HFC R-410A</u>	60	3 Ø	460 V	R1 A5	
<u>HFC R-410A</u>	50	3 Ø Nomen	380/420 V clature	R1 A5	

### ZPD120KCE-TFD

Date	Data Group	Field	Old Data	New Data
10-Jun-2008	Status	Status	Ρ	A
10-Jun-2008	Status	Status	Р	А
06-Apr-2008	Sound	Sound Ave	74	79
06-Apr-2008	Sound	Sound Ave	74	79
06-Apr-2008	Sound	Sound Max	79	84
06-Apr-2008	Sound	Sound Max	79	84
02-Apr-2008	Sound	Sound Ave	79	74
02-Apr-2008	Sound	Sound Ave	79	74
02-Apr-2008	Sound	Sound Max	84	79
02-Apr-2008	Sound	Sound Max	84	79