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):	21.75
Suction Size (in),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 Product's specified mounting grommets.

Electrical

LRA High* (Amps):	125.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	28
Max Operating Current (Amps):	22.0
RLA, MCC/1.4(use for contactor selection)(Amps):	20.0
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	17.9
RPM:	3500
Box IP :	21
UL File No:	SA-2337
UL File Date:	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	527-0116-00	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

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: 071-0519-34

Usage Description: Internal Protector

Vendor Part Number

35HM528

Vendor Name

SENSATA

Part No: 071-0519-58

Usage Description: Internal Protector

Vendor Part Number

35HM550

Vendor Name

SENSATA

Stator

Part No: 546-2111-02

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.27

Run Wdg: 0.00

Stator

Part No: 546-2081-44

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.24

Run Wdg: 0.00

Nomenclature

ZPD120KCE-TFD

Family Series

Z: Scroll

Application Range

P: 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 Application

Refrigerant	Freq	Phase	Voltage	Application

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

Nomenclature

ZPD120KCE-TFD

Date	Data Group	Field	Old Data	New Data
10-Jun-2008	Status	Status	P	A
10-Jun-2008	Status	Status	P	A
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