ZPD104KCE-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	45
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	65
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	106000	130500
Power (W):	9650	7020
Current (Amps):	14.65	11.6
EER(BTU/Wh):	11	18.55
Mass Flow (lbs/hr):	1550	1600
Sound Data @		
Sound Power (dBA):	77 Avg	82 Max
Vibration mils(peak-peak):	3.0 Avg	4.5 Max
Record Date:	2014-06-10	

Mechanical	
Displacement (in^3/Rev):	5.88
Displacement (ft^3/Hr):	
Overall Length (in):	10.61
Overall Width (in):	10.32
Overall Height (in):	24.30
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	24.59
Suction Size (in),Type:	1 1 / 8 Stub
Discharge Size (in),Type:	7 / 8 Stub
Initial Oil Charge (oz):	85
Oil Recharge (oz):	81
Net Weight (lbs):	107.6
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	130.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	23
Max Operating Current (Amps):	18.2
RLA, MCC/1.4(use for contactor selection)(Amps):	16.4
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	14.7
RPM:	3500
Box IP :	21
UL File No:	SA2337
UL File Date:	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	380/420	3	50	Air Conditioning (400v)
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

Refrigerant	Voltage	Phase	Frequency	Application

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
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	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
99	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
99	921-0227-00	1	CONNECTOR BLOCK KIT	
99	985-0200-00	1	THERMISTOR KIT	
99	998-0010-00	1	SIGHTGLASS KIT	
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	DISCHARGE SWEAT TO ROTALOCK
99	998-0034-03	1	ADAP KIT 11/8"SWT / 13/4 RL	SUCTION SWEAT TO ROTALOCK

Accessories

Electrical Components

Electrical Components

Part No: 071-0519-61

Usage Description: Internal Protector

Vendor Part Number

35HM554

Vendor Name

SENSATA

Stator

Part No: 546-2142-01

Usage Description: Stator

Stator

Part No: 546-2118-01

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 1.38

Run Wdg: 0.00

Resistance: +/-7%

Start Wdg: 1.38

Run Wdg: 0.00

Nomenclature

ZPD104KCE-TFD

Family Series

Z: Scroll

Application Range

P: A/C - R-410A/B

Modulation

D: Digital

Capacity

104K: 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
HFC R-410A	50	3 Ø	380/420 V	R1 AC
HFC R-410A	60	3 Ø	460 V	R1 A5
HFC R-410A	50	3 Ø	380/420 V	R1 A5
HFC R-410A	50	3 Ø	380/420 V	R1 A4

Nomenclature

ZPD104KCE-TFD

Date	Data Group	Field	Old Data	New Data
11-Jun-2014	Status	Status	P	A

Date	Data Group	Field	Old Data	New Data
11-Jun-2014	Status	Status	P	A
10-Jun-2014	Rating	PubCode		Y
06-May-2013	Rating	PubCode		PRE
05-May-2014	2 Pt Perf	Amp Cond 1	10.85	11.25
05-May-2014	2 Pt Perf	Amp Cond 2	9.6	9.95
05-May-2014	2 Pt Perf	Cap Cond 1	37900	42700
05-May-2014	2 Pt Perf	Cap Cond 2	46800	52600
05-May-2014	2 Pt Perf	EER Cond 1	8.1	8.3