ZP91KCE-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)	90500	80400
Power (W):	8230	7280
Current (Amps):	24.75	22.65
EER(BTU/Wh):	11	11.05
Mass Flow (lbs/hr):	1335	1120
Sound Data @		
Sound Power (dBA):	75 Avg	80 Max
Vibration mils(peak-peak):	2.5 Avg	3.5 Max
Record Date:	2011-03-30	

Mechanical	
Displacement (in^3/Rev):	5.16
Displacement (ft^3/Hr):	
Overall Length (in):	9.57
Overall Width (in):	9.77
Overall Height (in):	17.45
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	18.20
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	3 / 4 Stub
Initial Oil Charge (oz):	60
Oil Recharge (oz):	56
Net Weight (lbs):	90.0
Internal Free Volume (in^3):	260
Horse Power:	

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

Electrical

LRA High* (Amps):	191.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	43
Max Operating Current (Amps):	35.6
RLA, MCC/1.4(use for contactor selection)(Amps):	30.7
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	27.6
RPM:	3500
Box IP :	21
UL File No:	
UL File Date:	1993-07-26

*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

Service Parts

Reference	Component	Quantity	Description	Comment
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
2	527-0221-00	1	SPACER-MOUNTING ASSM	
7	998-0510-38	1	VLV KIT 3/4"SWT/1 1/4-12UNC	DISCHARGE ROTALOCK
8	998-0510-90	1	VLV KIT 7/8"SWT / 11/4-12UNC	SUCTION ROTALOCK
9	998-7024-00	1	HEARTER JUNCTION BOX KIT	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	921-0234-00	1	CONNECTOR BLOCK KIT	
99	998-0034-01	1	ADAP KIT 3/4"SWT / 11/4 RL	SWEAT TO ROTALOCK ADAPTER KIT DISCHARGE
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	SWEAT TO ROTALOCK ADAPTER KIT SUCTION

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-322032-E20ENN	EVM, 3Ø, 200-240v, Output 200-240v@32A, Pro, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-322032-N20MNN	EVM, 3Ø, 200-240v, Output 200-240v@32A, Basic, IP20, Standard, No Options, Frame 3
(1) Variable Frequency Drive	EVM-322032-N20MFN	EVM, 3Ø, 200-240v, Output 200-240v@32A, Basic, IP20, With add on EMI filter, No Options, Frame 3
(1) Variable Frequency Drive	EVM-322032-E20EFN	EVM, 3Ø, 200-240v, Output 200-240v@32A, Pro, IP20, With add on EMI filter, No Options, Frame 3
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
Crankcase Heaters	018-0095-04	Crankcase Heater, 240V, 70W, 48” Lead Length

Category	Part Number	Description

Electrical Components

Electrical Components

Part No: 071-0519-41

Usage Description: Internal Protector

Vendor Part Number

35HM411

Vendor Name

SENSATA

Stator

Part No: 546-2013-03

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.40

Run Wdg: 0.00

Nomenclature

ZP91KCE-TF5

Family Series

Z: Scroll

Application Range

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

Capacity

91K: Capacity Multiplier-1000

Oil Type

E: Polyol Ester

Motor Type

T: 3 Phase

Motor Protection

F: Internal Inherent Protection

Voltage

5: 60Hz (200/230-3) 50Hz (200/220-3)

Miscellaneous

Alternate Application

Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	200/220 V	R1 AC

Nomenclature

ZP91KCE-TF5

Date	Data Group	Field	Old Data	New Data
19-Nov-2009	Status	Status	P	A
19-Nov-2009	RatingRefNo	RatingRefNo	09-363	09-747
18-Nov-2009	Rating	PubCode		Y
10-Feb-2009	Rating	PubCode		PRE
19-Nov-2009	2 Pt Perf	Amp Cond 1	25.25	24.75
19-Nov-2009	2 Pt Perf	Amp Cond 2	19.65	22.65
19-Nov-2009	2 Pt Perf	Cap Cond 2	110000	80400
19-Nov-2009	2 Pt Perf	Data Sheet No	2.2fAC60-09-363	2.2fAC60-09-747
19-Nov-2009	2 Pt Perf	EER Cond 2	18.9	11.05
19-Nov-2009	2 Pt Perf	MassFlow Cond 2	1360	1120