ZP83KCE-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

		Performanc	e	
Evaporator Temp. (°F)			45	45
Condensing Temp. (°F)			130	100
Return Gas Temp. (°F)			65	65
Liquid Temp. (°F)			115	85
Capacity (BTU/hr)			83000	101000
Power (W):			7650	5450
Current (Amps):			22	16.6
EER(BTU/Wh):			10.8	18.5
Mass Flow (lbs/hr):			1220	1250
Sound Data @				
Sound Power (dBA):			75 Avg	80 Max
Vibration mils(peak-peak):			2.5 Avg	3.5 Max
Record Date:			2004-05-10	
		Mechanica	I	
Displacement (in^3/Rev):	4.71			
Displacement (ft^3/Hr):				
Overall Length (in):	9.69			
Overall Width (in):	9.69			
Overall Height (in):	17.91			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			

Mounting Height (in):	18.16
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	60
Oil Recharge (oz):	56
Net Weight (lbs):	87.0
Internal Free Volume (in^3):	264.5

Horse Power:

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

LRA High* (Amps):	164.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	39
Max Operating Current (Amps):	33.0
RLA, MCC/1.4(use for contactor selection)(Amps):	27.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	25.0
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

	Туре	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	
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	527-0116-00	1	SPACER-MOUNTING ASSM	
7	998-0510-98	1	VLV KIT 1/2"SWT/1-14UNC	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	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	SWEAT TO ROTALOCK ADAPTER KIT SUCTION
99	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT SUCTION

Accessories

		Accessories
Category	Part Number	Description
(1) Variable Frequency Drive	EVH-322031- R21BDN	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322031- R21BEN	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322031- R54BDN	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322031- R54BEN	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency Drive	EVH-322031- R21BDB	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H2S
(1) Variable Frequency Drive	EVH-322031- R54BDB	EVH, 3Ø, 200-240v, Output 200-240v@31A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length

Category	Part Number	Description
----------	-------------	-------------

Electrical Components

Electrical Components

Part No: 071-0519-22

Usage Description: Internal Protector

Vendor Part Number

35HM400

Vendor Name

SENSATA

Part No: 071-0679-02

Usage Description: Internal Protector

Vendor Part Number

35HM415

Vendor Name

SENSATA

Stator

Part No: 546-2122-06

Usage Description: Stator

Resistance: +/-7% Start Wdg: 0.50

Run Wdg: 0.00

Stator

Part No: 546-2093-63

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 0.50

Run Wdg: 0.00

Nomenclature

ZP83KCE-TF5

Family Series

Z: Scroll

Application Range

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

Capacity

83K: 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

ZP83KCE-TF5

Date	Data Group	Field	Old Data	New Data
11-May-2004	Status	Status	Р	А
11-May-2004	RatingRefNo	RatingRefNo	03-847	04-1070
10-May-2004	Rating	PubCode		Υ
06-Oct-2003	Rating	PubCode		PRE
29-Jul-2004	Mech	CFH		572.39688
11-May-2004	2 Pt Perf	Amp Cond 1	23.4	22
11-May-2004	2 Pt Perf	Amp Cond 2	18.6	16.6
11-May-2004	2 Pt Perf	Data Sheet No	2.2fAC60-03-847	2.2fAC60-04-1070