ZP83KCE-TFD

HFC, R-410A, 60 Hz, 3 - Phase, 460 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	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):	11.8	9.4			
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				
	Mechanical				
Displacement (in^3/Rev): 4.71					
Displacement (ft^3/Hr):					

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		

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Refrigerant	Vol	tage	Alternate Applic	ations Frequency	Application
No data available	in table				
Гуре	Part No	Low MFD	High MFD	Volts	User Description
			Capacitors		
ow and High refe	r to the low and	d high nominal v	oltage ranges for	which the moto	r is approved.
UL File Date:				1993-07-26	
UL File No:					
Box IP :				21	
RPM:			-	3500	
RLA, MCC/1.56(ı				12.2	
RLA, MCC/1.4(us			ps):	13.6	
Max Operating C	Current (Amps):		15.0	
MCC (Amps):	g (Amps).			19	
LRA Low*(Amps) LRA Half Windin					
LRA High* (Amp				100.0	
Overall compresso		peland Brand Pro	duct's s Electrical i		nets.
Horse Power:					
Internal Free Vol	ume (in^3):	264.5			
Net Weight (lbs)		87.0			
Oil Recharge (oz)):	56			
Initial Oil Charge	(oz):	60			
Discharge Size (i	n),Type:	1 / 2 Stub			
Suction Size (in),	Туре:	7 / 8 Stub			

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	921-0235-00	1	CONNECTOR BLOCK KIT - SCROLL	
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	EVM-344016-	EVM, 3Ø, 380-480v, Output 380-480v@16A, Pro, IP20, Standard, No Options,		
Frequency Drive	E20ENN	Frame 2		
(1) Variable	EVM-344016-	EVM, 3Ø, 380-480v, Output 380-480v@16A, Basic, IP20, Standard, No Options,		
Frequency Drive	N20MNN	Frame 2		
(1) Variable	EVM-344016-	EVM, 3Ø, 380-480v, Output 380-480v@16A, Basic, IP20, With add on EMI filter,		
Frequency Drive	N20MFN	No Options, Frame 2		
(1) Variable	EVM-344016-	EVM, 3Ø, 380-480v, Output 380-480v@16A, Pro, IP20, With add on EMI filter, No		
Frequency Drive	E20EFN	Options, Frame 2		
(1) Variable	EVH-344016-	EVH, 3Ø, 380-480v, Output 380-480v@16A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BDN	Choke, No Options, Frame 2		
(1) Variable	EVH-344016-	EVH, 3Ø, 380-480v, Output 380-480v@16A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 2		
(1) Variable	EVH-344016-	EVH, 3Ø, 380-480v, Output 380-480v@16A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BDN	Choke, No Options, Frame 2		

Category	Part Number	Description
(1) Variable	EVH-344016-	EVH, 3Ø, 380-480v, Output 380-480v@16A, LCD Keypad, IP54, With 5% DC Link
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 2
(1) Variable	EVH-344016-	EVH, 3Ø, 380-480v, Output 380-480v@16A, LCD Keypad, IP21, With 5% DC Link
Frequency Drive	R21BDB	Choke, With Bypass, Frame H1S

Electrical Components

Electrical Components				
Part No: 071-0519-18				
Usage Description: Internal Protector				
Vendor Part Number				
35HM500				
Vendor Name				
SENSATA				
Part No: 071-0519-63				
Usage Description: Internal Protector				
Vendor Part Number				
35HM555				
Vendor Name				
SENSATA				
Part No: 071-0573-12	Stator			
Usage Description: Internal Protector	Part No: 546-1209-13			
Vendor Part Number	Usage Description: Stator			
UP28JY081-720	Resistance: +/-7%			
Vendor Name	Start Wdg: 1.79			
UBUKATA	Run Wdg: 0.00			
Stator	Stator			
Part No: 546-2104-14	Part No: 546-2104-15			
Usage Description: Stator	Usage Description: Stator			
Resistance: +/-7%	Resistance: +/-7%			
Start Wdg: 1.79	Start Wdg: 1.79			
Run Wdg: 0.00	Run Wdg: 0.00			
Stator	Stator			
Part No: 546-2122-02	Part No: 546-2122-03			
Usage Description: Stator	Usage Description: Stator			
Resistance: +/-7%	Resistance: +/-7%			

Start Wdg: 1.65	Start Wdg: 1.65	
Run Wdg: 0.00	Run Wdg: 0.00	
Stator	Stator	
Part No: 846-2122-02	Part No: 846-2122-03	
Usage Description: Stator	Usage Description: Stator	
Resistance: +/-7%	Resistance: +/-7%	
Start Wdg: 1.65	Start Wdg: 1.65	
Run Wdg: 0.00	Run Wdg: 0.00	

Nomenclature

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	
D: 60Hz (460-3) 50Hz (380/420-3)	

Miscellaneous

Alternate Application						
Refrigerant Freq Phase Voltage Application						
<u>HFC R-410A</u>	50	3 Ø	380/420 V	R1 AC		
Nomenclature						
ZP83KCE-TFD						
Date Data Group Field Old Data New Data						
11-May-2004	Status	Status	Р	А		

Date	Data Group	Field	Old Data	New Data
04-Feb-2013	RatingRefNo	RatingRefNo	04-1072	04-1072a
11-May-2004	RatingRefNo	RatingRefNo	03-847	04-1072
10-May-2004	Rating	PubCode		Υ
29-Jul-2004	Mech	CFH		572.39688
13-Feb-2013	2 Pt Perf	Max Cond		150
13-Feb-2013	2 Pt Perf	Max Evap		55
13-Feb-2013	2 Pt Perf	Min Cond		80
13-Feb-2013	2 Pt Perf	Min Evap		-10