ZP91KCE-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	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):	12.55	11.45		
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			

M	echa	nic	al
IVI	ecna	inic	a 1

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

Suction Size (in)	,Type:	7 / 8 Stub			
	••	7703100			
Discharge Size (i	in),Type:	3 / 4 Stub			
Initial Oil Charge	e (oz):	60			
Oil Recharge (oz	<u>z</u>):	56			
Net Weight (lbs)):	90.0			
Internal Free Vo	lume (in^3):	264.5			
Horse Power:					
Overall compresso	or height on Co	opeland Brand I	Product's s pecifiec h	nounting gromr	nets.
LRA High* (Amp	os):			100.0	
LRA Low*(Amps):				
LRA Half Windir	ng (Amps):				
MCC (Amps):				20	
Max Operating (Current (Amp	s):		16.2	
RLA, MCC/1.4(u	se for contact	or selection)(#	Amps):	14.3	
RLA, MCC/1.56(use for breake	er & wire size s	selection)(Amps):	12.8	
RPM:				3500	
Box IP :				21	
UL File No:					
UL File Date:				1993-07-26	
ow and High refe	er to the low ar	nd high nomina	al voltage ranges for	which the motc	or is approved.
			Capacitors	;	
Туре	Part No	Low MFD	High MFD	Volts	User Description
No data available	e in table				
			Alternate Applic	ations	
Refrigerant	Vo	ltage	Phase	Frequency	Application
R-410A HFC	38	0/420	3	50	Air Conditioning (400v)
R 410A HIC					

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	921-0235-00	1	CONNECTOR BLOCK KIT - SCROLL		
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	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	

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	R54BDN	Choke, 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	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	Stator
Usage Description: Internal Protector	Part No: 546-2093-54
Vendor Part Number	Usage Description: Stator
35HM555	Resistance: +/-7%
Vendor Name	Start Wdg: 1.79
SENSATA	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

Nomenclature

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		

Miscellaneous

Alternate Application				
Refrigerant	Freq	Phase	Voltage	Application
HFC R-410A	50	3 Ø	380/420 V	R1 AC
HFC R-410A	50	3 Ø	380/420 V	R1 A4
		Nomenc	lature	
		ZP91KCE	<u>-TFD</u>	
Date	Data Group	Field	Old Data	New Data
19-Nov-2009	Status	Status	Р	А
04-Nov-2009	RatingRefNo	RatingRefNo	09-361	09-819
18-Nov-2009	Rating	PubCode		Y
10-Feb-2009	Rating	PubCode		PRE
15-Aug-2009	Mech	CFH		627.570592
15-Aug-2009	Mech	Cu In Per Rev		5.164
15-Aug-2009	Mech	Init Oil Charge		60
15-Aug-2009	Mech	Rech Oil Charge		56

Date	Data Group	Field	Old Data	New Data
19-Nov-2009	2 Pt Perf	Amp Cond 2	9.85	11.45