# **ZP76KCE-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)	77000	93700		
Power (W):	7060	5020		
Current (Amps):	11.05	9.05		
EER(BTU/Wh):	10.9	18.7		
Mass Flow (lbs/hr):	1135	1155		
Sound Data @				
Sound Power (dBA):	75 Avg	80 Max		
Vibration mils(peak-peak):	2.5 Avg	3.5 Max		
Record Date:	2010-07-29			
	Mechanical			
Displacement (in^3/Rev): 4.32				

Displacement (in^3/Rev):	4.32
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

Refrigerant	Volt	ade	Phase	Frequency	Application
			Alternate Applic	ations	
No data available i	n table				
Туре	Part No	Low MFD	High MFD	Volts	User Description
			Capacitors		
ow and High refer	to the low and	l high nominal vo	oltage ranges for	which the motor is ap	pproved.
UL File Date:				1993-07-26	
UL File No:					
Box IP :				21	
RPM:				3500	
RLA, MCC/1.56(u				12.8	
RLA, MCC/1.4(use			ps):	14.3	
Max Operating Co	urrent (Amps)	:		14.4	
MCC (Amps):	J (Amps).			20	
LRA Low*(Amps):					
LRA High* (Amps				100.0	
		eland Brand Pro	auct s s <b>pectrea</b> n	nounting grommets.	
	haishtan Can				
Internal Free Volu Horse Power:	ime (in^3):	264.5			
Net Weight (lbs):		87.0			
Oil Recharge (oz)		56			
Initial Oil Charge	(oz):	60			
Discharge Size (in	ı),Type:	1 / 2 Stub			
Suction Size (in),1	Гуре:	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 C	omponents
art No: 071-0519-25	
Isage Description: Internal Protector	
endor Part Number	
5HM508	
endor Name	
ENSATA	
art No: 071-0519-62	Stator
Isage Description: Internal Protector	Part No: 546-2093-68
endor Part Number	Usage Description: Stator
5HM551	Resistance: +/-7%
endor Name	Start Wdg: 1.79
ENSATA	Run Wdg: 0.00
itator	Stator
art No: 546-2122-00	Part No: 546-2122-01
lsage Description: Stator	Usage Description: Stator
esistance: +/-7%	Resistance: +/-7%
tart Wdg: 1.65	Start Wdg: 1.65
un Wdg: 0.00	Run Wdg: 0.00

## Nomenclature

P76KCE-TFD		
Family Series		
Z: Scroll		
Application Range		
<b>P:</b> A/C - R-410A/B		
Capacity		

76K: 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
		Nomenc	lature	
		<u>ZP76KCI</u>	<u>E-TFD</u>	
Date	Data Group	Field	Old Data	New Data
12-Feb-2009	Status	Status	Ρ	А
12-Feb-2009	RatingRefNo	RatingRefNo	08-1097	09-34
11-Feb-2009	Rating	PubCode		Υ
15-Sep-2008	Rating	PubCode		PRE
15-Aug-2009	Mech	CFH		524.879432
15-Aug-2009	Mech	Cu In Per Rev		4.319
15-Aug-2009	Mech	Init Oil Charge		60
15-Aug-2009	Mech	Rech Oil Charge		56
29-Jul-2010	2 Pt Perf	Amp Cond 1	11.1	11.05
29-Jul-2010	2 Pt Perf	Cap Cond 1	77500	77000