

ZP40K6E-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	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	39200	53600
Power (W):	3750	2460
Current (Amps):	5.35	3.9
EER(BTU/Wh):	10.45	21.8
Mass Flow (lbs/hr):	575	656
Sound Data @ 50 / 115		
Sound Power (dBA):	71 Avg	76 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2017-04-25	
Mechanical		
Displacement (in^3/Rev):	2.28	
Displacement (ft^3/Hr):		
Overall Length (in):	9.69	
Overall Width (in):	9.69	
Overall Height (in):	16.94	
Mounting Length (in):	7.50	
Mounting Width (in):	7.50	

Mounting Height (in):	17.22
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	36
Net Weight (lbs):	67.0
Internal Free Volume (in^3):	210
Horse Power:	

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

LRA High* (Amps):	41.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	9.7
Max Operating Current (Amps):	8.0
RLA, MCC/1.4(use for contactor selection)(Amps):	6.9
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	6.2
RPM:	3500
Box IP :	21
UL File No:	SA2337
UL File Date:	2003-12-16

*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	380/420	3	50	Air Conditioning

Service Parts

Reference	Component	Quantity	Description	Comment
99	100-0605-02	1	SCREW- TAPTITE W/ LOCKWASHER	
99	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
99	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND
99	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND
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	ROOTALOCK TO SWEAT ADAPTER KIT SUCTION
99	998-0034-15	1	SERV ADAPTOR KIT 1/2 STUB	SWEAT TO ROTALOCK ADAPTER KIT DISCHARGE
99	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROOTALOCK TO SWEAT ADAPTER KIT DISCHARGE
99	998-0230-00	1	CONDUIT ADAPTOR KIT 5/8	

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-3447D6-E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3447D6-E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, No Options, Frame 1

Category	Part Number	Description
(1) Variable Frequency Drive	EVH-3447D6-R54BEN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke + EMI Filter, No Options, Frame 1
(1) Variable Frequency Drive	EVH-3447D6-R21BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, With Bypass, Frame H1S
(1) Variable Frequency	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5%

Electrical Components

Electrical Components	
Part No: 071-0572-51	
Usage Description: Internal Protector	
<u>Vendor Part Number</u>	
UP18IY162-770	
<u>Vendor Name</u>	
UBUKATA	
Part No: 071-0612-05	Stator
Usage Description: Internal Protector	Part No: 546-2112-05
<u>Vendor Part Number</u>	Usage Description: Stator
37HM218	Resistance: +/-7%
<u>Vendor Name</u>	Start Wdg: 4.64
SENSATA	Run Wdg: 0.00
Stator	
Part No: 846-2112-05	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 4.64	
Run Wdg: 0.00	

Nomenclature

ZP40K6E-TFD
Family Series
Z: Scroll
Application Range
P: A/C - R-410A/B
Capacity

40K: Capacity Multiplier-1000

Model Variation

6: Model Variation

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
HFC R-410A	50	3 Ø	380/420 V	R1 AC
Nomenclature				
ZP40K6E-TFD				
Date	Data Group	Field	Old Data	New Data
20-Jan-2015	Status	Status	P	A
19-Jan-2015	Rating	PubCode		Y
20-Mar-2014	Rating	PubCode		PRE
15-Oct-2014	2 Pt Perf	Amp Cond 2	4.5	3.9
15-Oct-2014	2 Pt Perf	Cap Cond 2	48700	53600
15-Oct-2014	2 Pt Perf	EER Cond 2	16.2	21.8
15-Oct-2014	2 Pt Perf	MassFlow Cond 2	645	656
15-Oct-2014	2 Pt Perf	Watts Cond 2	3000	2460
13-Oct-2014	2 Pt Perf	Amp Cond 1	3.9	5.35
13-Oct-2014	2 Pt Perf	Cap Cond 1	53600	39200