ZP51K6E-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

Performar	ice	
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	51700	70000
Power (W):	4800	3200
Current (Amps):	13.7	9.8
EER(BTU/Wh):	10.8	21.9
Mass Flow (lbs/hr):	752	853
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):	2.94
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

Refrigerant	Vo	ltage	Phase	Frequency	Application
D.6		14	Alternate Applic		A
No data available	e in table				
Туре	Part No	Low MFD	High MFD	Volts	User Description
			Capacitors	•	
ow and High refe	er to the low an	d high nominal	voltage ranges for	which the moto	r is approved.
UL File Date:				2003-12-17	
UL File No:				SA2337	
Box IP :				21	
RPM:				3500	
			lection)(Amps):	16.0	
RLA, MCC/1.4(u			nps):	17.8	
Max Operating	Current (Amps	;):		19.0	
LRA Half Windiı MCC (Amps):	ng (Amps):			24.9	
LRA Low*(Amps					
LRA High* (Amp				110.0	
		peland Brand Pr	oduct's specifiécal		nets.
Horse Power:					
Internal Free Vo	lume (in^3):	291			
Net Weight (lbs):	71.7			
Oil Recharge (oz	z):	36			
Initial Oil Charg	e (oz):	42			
Discharge Size (in),Type:	1 / 2 Stub			
Suction Size (in)),Туре:	7 / 8 Stub			

			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	ROTALOCK 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	ROTALOCK TO SWEAT ADAPTER KIT DISCHARGE
99	998-0230-00	1	CONDUIT ADAPTOR KIT 5/8	

Accessories

		Accessories
Category	Part Number	Description
(1) Variable Frequency	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, Standard, No
Drive	E20ENN	Options, Frame 2
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5%
Drive	R54BDB	DC Link Choke, With Bypass, Frame H3X
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5%
Drive	R21BDB	DC Link Choke, With Bypass, Frame H2S
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5%
Drive	R54BDN	DC Link Choke, No Options, Frame 2
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5%
Drive	R21BEN	DC Link Choke + EMI Filter, No Options, Frame 2
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP21, With 5%
Drive	R21BDN	DC Link Choke, No Options, Frame 2
(1) Variable Frequency	EVH-322025-	EVH, 3Ø, 200-240v, Output 200-240v@25A, LCD Keypad, IP54, With 5%
Drive	R54BEN	DC Link Choke + EMI Filter, No Options, Frame 2

Category	Part Number	Description
(1) Variable Frequency	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Pro, IP20, With add on EMI
Drive	E20EFN	filter, No Options, Frame 2
(1) Variable Frequency	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, With add on EMI
Drive	N20MFN	filter, No Options, Frame 2
(1) Variable Frequency	EVM-322025-	EVM, 3Ø, 200-240v, Output 200-240v@25A, Basic, IP20, Standard, No

Electrical Components

	Electrical Components	
Part No: 071-0613-16	Stator	
Usage Description: Internal Protector	Part No: 546-2112-01	
Vendor Part Number	Usage Description: Stator	
34HM415	Resistance: +/-7%	
<u>Vendor Name</u>	Start Wdg: 0.86	
SENSATA	Run Wdg: 0.00	

Nomenclature

: Scroll Application Range	
Application Range	
Abbucation value	
P: A/C - R-410A/B	
Capacity	
1K: Capacity Multiplier-1000	
Nodel Variation	
: Model Variation	
Dil Type	
Polyol Ester	
Notor Type	
: 3 Phase	
Notor Protection	
Internal Inherent Protection	
/oltage	

Alternate Application					
Refrigerant	Freq	Phase	Voltage	Арр	olication
HFC R-410A	50	3 Ø	200/220 V	R1 /	AC
		Nomenc	lature		
		<u>ZP51K6</u>	E-TF5		
Date	Data Group	Field		Old Data	New Data
13-Oct-2014	Status	Status		Ρ	А
15-Jun-2014	Sound	Sound Ave		68	71
15-Jun-2014	Sound	Sound Max		73	76
15-Jun-2014	Sound	Vibration Av	/e	2.5	2
15-Jun-2014	Sound	Vibration Ma	ах	3.5	3
11-Jun-2014	Sound	Sound Ave		71	68
11-Jun-2014	Sound	Sound Max		76	73
11-Jun-2014	Sound	Sound Start		63	69
11-Jun-2014	Sound	Sound Start	Max	71	77
11-Jun-2014	Sound	Sound Stop		69	63