ZR38K5E-TFD

HCFC, R-22, 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

		Performanc	е	
Evaporator Temp. (°F)			45	50
Condensing Temp. (°F)			130	100
Return Gas Temp. (°F)			65	70
Liquid Temp. (°F)			115	85
Capacity (BTU/hr)			38000	49400
Power (W):			3400	2300
Current (Amps):			5.15	4
EER(BTU/Wh):			11.2	21.4
Mass Flow (lbs/hr):			556	632
Sound Data @ 45 / 130				
Sound Power (dBA):			73 Avg	78 Max
Vibration mils(peak-peak):			2.0 Avg	3.0 Max
Record Date:			2015-10-13	
		Mechanical		
Displacement (in^3/Rev):	3.11			
Displacement (ft^3/Hr):				
Overall Length (in):	9.69			
Overall Width (in):	9.69			
Overall Height (in):	19.94			
Mounting Length (in):	7.50			
Mounting Width (in):	7.50			

Mounting Height (in):	17.17
Suction Size (in),Type:	7 / 8 Stub
Discharge Size (in),Type:	1 / 2 Stub
Initial Oil Charge (oz):	42
Oil Recharge (oz):	34
Net Weight (lbs):	60.7
Internal Free Volume (in^3):	226

Horse Power:

 ${}^*\text{Overall compressor height on Copeland Brand Product's } \textbf{\textit{specifical}} \textbf{\textit{m}} \textbf{\textit{ounting grommets}}.$

LRA High* (Amps):	48.0
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	9
Max Operating Current (Amps):	7.0
RLA, MCC/1.4(use for contactor selection)(Amps):	6.4
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	5.8
RPM:	3500
Box IP:	21
UL File No:	SA-2337

UL File Date:

Capacitors

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No data available in table

Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-22 HCFC	380/420	3	50	Air Conditioning
R-407C HFC	460	3	60	Air Conditioning
R-407C HFC	380/420	3	50	Air Conditioning

^{*}Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

Service Parts

Service Parts					
Reference	Component	Quantity	Description	Comment	
1	918-0041-00	1	HEATER-CRANKCASE	240V 40W WRAP AROUND	
1	918-0041-01	1	HEATER-CRANKCASE	120V 40W WRAP AROUND	
2	527-0116-00	1	SPACER-MOUNTING ASSM		
14	529-0060-24	1	POWER CABLE-MOLDED PLUG		

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	EVH-3447D6- R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X
(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- R54BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, 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- 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 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	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- 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	EVH-3447D6- R21BDN	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link Choke, No Options, Frame 1

Electrical Components

Part No: 071-0501-27

Usage Description: Internal Protector

Vendor Part Number

34HM223

Vendor Name

SENSATA

Part No: 071-0501-29

Usage Description: Internal Protector

Vendor Part Number

34HM226

Vendor Name

SENSATA

Stator

Part No: 546-2115-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 4.68

Run Wdg: 0.00

Stator

Part No: 546-2090-04

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 4.03

Run Wdg: 0.00

Nomenclature

ZR38K5E-TFD

Family Series

Z: Scroll

Application Range

R: A/C - R-22/407C/134a

Capacity

38K: 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	
HCFC R-22	50	3 Ø	380/420 V	R1 AC	
HFC R-407C	60	3 Ø	460 V	R1 AC	
HFC R-407C	50	3 Ø	380/420 V	R1 AC	

Nomenclature

ZR38K5E-TFD

Date	Data Group	Field	Old Data	New Data
13-Oct-2015	Rating	PubCode		Υ