ZR42K5E-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

Perforn	nance	
Evaporator Temp. (°F)	45	50
Condensing Temp. (°F)	130	100
Return Gas Temp. (°F)	65	70
Liquid Temp. (°F)	115	85
Capacity (BTU/hr)	42200	55900
Power (W):	3750	2540
Current (Amps):	5.65	4.3
EER(BTU/Wh):	11.25	21.95
Mass Flow (lbs/hr):	618	716
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):	3.45
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):						
Internal Free Volume (in^3):	226.3					
Horse Power:	3.5					
*Overall compressor height on C	opeland Brand P	roduct's s pecifiécal e	nounting gro	ommets.		
LRA High* (Amps):			48.0			
LRA Low*(Amps):						
LRA Half Winding (Amps):						
MCC (Amps):			9			
Max Operating Current (Amp	os):		8.0			
RLA, MCC/1.4(use for contac		mps):	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:						
*Low and High refer to the low a	nd high nominal			iotor is approved.		
		Capacitors				
Type Part No	Low MFD	High MFD	Volts	User Description		
No data available in table						
		Alternate Applic	ations			
Refrigerant V	oltage	Phase	Frequency	y Application		
R-22 HCFC 38	80/420	3	50	Air Conditioning		
	50	3	60	Air Conditioning		
R-407C HFC 46				5		

Service Parts

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

Accessories

Accessories				
Category	Part Number	Description		
(1) Variable	EVM-3447D6-	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, Standard, No Options,		
Frequency Drive	E20ENN	Frame 1		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BDB	Choke, With Bypass, Frame H3X		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BEN	Choke + EMI Filter, No Options, Frame 1		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP54, With 5% DC Link		
Frequency Drive	R54BDN	Choke, No Options, Frame 1		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BEN	Choke + EMI Filter, No Options, Frame 1		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BDB	Choke, With Bypass, Frame H1S		
(1) Variable	EVM-3447D6-	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Pro, IP20, With add on EMI filter, No		
Frequency Drive	E20EFN	Options, Frame 1		
(1) Variable	EVM-3447D6-	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, Standard, No Options,		
Frequency Drive	N20MFN	Frame 1		
(1) Variable	EVM-3447D6-	EVM, 3Ø, 380-480v, Output 380-480v@7.6A, Basic, IP20, With add on EMI filter,		
Frequency Drive	N20MFN	No Options, Frame 1		
(1) Variable	EVH-3447D6-	EVH, 3Ø, 380-480v, Output 380-480v@7.6A, LCD Keypad, IP21, With 5% DC Link		
Frequency Drive	R21BDN	Choke, No Options, Frame 1		

Electrical Components

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Part No: 071-0501-27	
Usage Description: Internal Protector	
Vendor Part Number	
34HM223	
Vendor Name	
SENSATA	
Part No: 071-0613-25	Stator
Usage Description: Internal Protector	Part No: 546-2090-04
Vendor Part Number	Usage Description: Stator
34HM537	Resistance: +/-7%
Vendor Name	Start Wdg: 4.03
SENSATA	Run Wdg: 0.00
Stator	
Part No: 546-2115-10	
Usage Description: Stator	
Resistance: +/-7%	
Start Wdg: 4.03	
Run Wdg: 0.00	

Nomenclature

Family Series		
Z: Scroll		
Application Range		
R: A/C - R-22/407C/134a		
Capacity		
42K: 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	380/420 V	R1 AC			
HFC R-407C	R1 AC				
HFC R-407C	50	3 Ø	380/420 V	R1 AC	
Nomenclature ZR42K5E-TFD					
Date	Data Group	Field	Old Data	New Data	
13-Oct-2015 Rating PubCode Y					