ZR68KCE-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

F	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)	70000	82000
Power (W):	5950	4250
Current (Amps):	8.7	6.8
EER(BTU/Wh):	11.8	19.3
Mass Flow (lbs/hr):	1030	1060
Sound Data @		
Sound Power (dBA):	75 Avg	80 Max
Vibration mils(peak-peak):	2.0 Avg	3.0 Max
Record Date:	2014-03-06	
	Mechanical	
Displacement (in^3/Rev): 5.68		

Displacement (In^3/Rev):	0.00
Displacement (ft^3/Hr):	
Overall Length (in):	9.69
Overall Width (in):	9.69
Overall Height (in):	17.75
Mounting Length (in):	7.50
Mounting Width (in):	7.50

Mounting Height (in):	18.00			
Suction Size (in),Type:	7 / 8 Stub			
Discharge Size (in),Type:	1 / 2 Stub			
Initial Oil Charge (oz):	60			
Oil Recharge (oz):	56			
Net Weight (lbs):	86.0			
Internal Free Volume (in^3	3): 362			
Horse Power:	5.5			
*Overall compressor height or	n Copeland Brand F	Product's s Elective	amounting grom	nets.
LRA High* (Amps):			75.0	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			14	
Max Operating Current (A	mps):		12.1	
RLA, MCC/1.4(use for cont	actor selection)(A	mps):	10.0	
RLA, MCC/1.56(use for bre	eaker & wire size s	election)(Amps)	: 9.0	
RPM:			3500	
Box IP :			21	
UL File No:			SA-2337	
UL File Date:			1993-07-26	
*Low and High refer to the lov	w and high nomina	l voltage ranges f	or which the moto	or is approved.
		Capacito	ors	
Type Part No	Low MFD	High MF	O Volts	User Description
No data available in table				
		Alternate App	lications	
Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	380/420	3	50	Air Conditioning
R-134a HFC	460	3	60	Air Conditioning
R-22 HCFC	380/420	3	50	Air Conditioning
R-407C HFC	460	3	60	Air Conditioning

Refrigerant	Voltage	Phase	Frequency	Application

Service Parts

			Service Parts	
eference	Component	Quantity	Description	Comment
	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
	527-0116-00	1	SPACER-MOUNTING ASSM	

Accessories

Accessories			
Category	Part Number	Description	
(1) Variable Frequency Drive	EVH-344012- R54BDB	EVH, 3Ø, 380-480v, Output 380-480v@11A, LCD Keypad, IP54, With 5% DC Link Choke, With Bypass, Frame H3X	
Crankcase Heaters	018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length	
Crankcase Heaters	018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length	
Crankcase Heaters	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length	
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length	
Crankcase Heaters	018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length	
Crankcase Heaters	018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length	
Crankcase Heaters	018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length	
Crankcase Heaters	018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length	
Crankcase Heaters	018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length	

Electrical Components

Electrical Components
Part No: 071-0519-15
Usage Description: Internal Protector
Vendor Part Number
35HM250
Vendor Name
SENSATA
Part No: 071-0519-31
Usage Description: Internal Protector
Vendor Part Number

35HM207

Vendor Name

SENSATA

Part No: 071-0573-11

Usage Description: Internal Protector

Vendor Part Number

UP28HY142-720

Vendor Name

UBUKATA

Stator Part No: 546-2011-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.47

Run Wdg: 0.00

Stator Part No: 546-2093-30

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.27

Run Wdg: 0.00

Stator Part No: 846-2011-00

Usage Description: Stator

Resistance: +/-7%

Start Wdg: 2.47

Run Wdg: 0.00

Nomenclature

ZR68KCE-TFD
Family Series
Z: Scroll
Application Range
R: A/C - R-22/407C/134a
Capacity
68K: Capacity Multiplier-1000
Oil Type

Stator Part No: 546-1209-12 Usage Description: Stator Resistance: +/-7% Start Wdg: 2.27 Run Wdg: 0.00

Stator Part No: 546-2011-01 Usage Description: Stator Resistance: +/-7% Start Wdg: 2.47 Run Wdg: 0.00 Stator Part No: 546-2093-31 Usage Description: Stator

Resistance: +/-7% Start Wdg: 2.27

Run Wdg: 0.00

Stator Part No: 846-2011-01 Usage Description: Stator Resistance: +/-7% Start Wdg: 2.47 Run Wdg: 0.00

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	
<u>HFC R-134a</u>	50	3 Ø	380/420 V	R1 AC	
<u>HFC R-134a</u>	60	3 Ø	460 V	R1 AC	
<u>HFC R-407C</u>	60	3 Ø	460 V	R1 AC	
<u>HFC R-407C</u>	50	3 Ø	380/420 V	R1 AC	
		Nomencla	ature		
		ZR68KCE-	TFD		
Date	Data Group	Field	Old Data	New Data	
06-Mar-2014	2 Pt Perf	Amp Con	nd 1 8.8	8.7	