ZRU140KCE-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

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)	141000	164000
Power (W):	12200	8750
Current (Amps):	18.1	14.3
EER(BTU/Wh):	11.5	18.8
Mass Flow (lbs/hr):	2060	2120
Sound Data @		
Sound Power (dBA):	Avg	Max
Vibration mils(peak-peak):		
Record Date:	2014-03-06	

Mechanical	
Displacement (in^3/Rev):	11.66
Displacement (ft^3/Hr):	
Overall Length (in):	24.65
Overall Width (in):	11.69
Overall Height (in):	18.80
Mounting Length (in):	21.50
Mounting Width (in):	7.50

Mounting Height (in):	19.13
Suction Size (in),Type:	1 1 / 8 Stub
Discharge Size (in),Type:	3 / 4 Stub
Initial Oil Charge (oz):	114
Oil Recharge (oz):	106
Net Weight (lbs):	220.0
Internal Free Volume (in^3):	
Horse Power:	

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

Electrical

LRA High* (Amps):	
LRA Low*(Amps):	
LRA Half Winding (Amps):	
MCC (Amps):	0
Max Operating Current (Amps):	
RLA, MCC/1.4(use for contactor selection)(Amps):	
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	
RPM:	3500
Box IP :	
UL File No:	
UL File Date:	1996-06-28

*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-22 HCFC	380/420	3	50	Air Conditioning
R-22 HCFC	380/420	3	50	A/C, Larger Model of UnEven Tandem
R-22 HCFC	460	3	60	A/C, Larger Model of UnEven Tandem

Refrigerant	Voltage	Phase	Frequency	Application
R-22 HCFC	380/420	3	50	A/C, Smaller Model of UnEven Tandem
R-22 HCFC	380/420	3	50	A/C, Smaller Model of UnEven Tandem
R-22 HCFC	380/420	3	50	A/C, Smaller Model of UnEven Tandem
R-22 HCFC	460	3	60	A/C, Smaller Model of UnEven Tandem
R-22 HCFC	460	3	60	A/C, Smaller Model of UnEven Tandem
R-22 HCFC	460	3	60	A/C, Smaller Model of

Service Parts

Service Parts

Reference	Component	Quantity	Description	Comment
No data available in table				

Accessories

Accessories

Category	Part Number	Description
(1) Variable Frequency Drive	EVM-3442D2-E20ENN	EVM, 3Ø, 380-480v, Output 380-480v@2.2A, Pro, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3442D2-N20MNN	EVM, 3Ø, 380-480v, Output 380-480v@2.2A, Basic, IP20, Standard, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3442D2-N20MFN	EVM, 3Ø, 380-480v, Output 380-480v@2.2A, Basic, IP20, With add on EMI filter, No Options, Frame 1
(1) Variable Frequency Drive	EVM-3442D2-E20EFN	EVM, 3Ø, 380-480v, Output 380-480v@2.2A, Pro, IP20, With add on EMI filter, No Options, Frame 1
Crankcase Heaters	018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
Crankcase Heaters	018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length

Category	Part Number	Description
Crankcase Heaters	018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length

Electrical Components

No associated data for this model.

Nomenclature

ZRU140KCE-TFD

Family Series

Z: Scroll

Application Range

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

Modulation

U: Uneven Tandem

Capacity

140K: 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
HCFC R-22	50	3 Ø	380/420 V	R1 AL
HCFC R-22	60	3 Ø	460 V	R1 AL
HCFC R-22	50	3 Ø	380/420 V	R1 AS
HCFC R-22	50	3 Ø	380/420 V	R1 AS

Refrigerant	Freq	Phase	Voltage	Application
HCFC R-22	50	3 Ø	380/420 V	R1 AS
HCFC R-22	60	3 Ø	460 V	R1 AS
HCFC R-22	60	3 Ø	460 V	R1 AS
HCFC R-22	60	3 Ø	460 V	R1 AS

Tandem Component Compressors

ZR68KCE-TFD

Nomenclature

ZRU140KCE-TFD

Date	Data Group	Field	Old Data	New Data
06-Mar-2014	2 Pt Perf	Watts Cond 2	8740	8750