

# ZB95K5E-TFD

HFC, R-134a, 60 Hz, 3 - Phase, 460 V , Also Available with Variable Frequency Drives

## High Temp

Production Status: Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies Representative for international availability.

## Summary

Performance			Mechanical	
Evaporator Temp. (°F)	45.00	20	Displacement (in <sup>3</sup> /Rev):	12.76
Condensing Temp. (°F)	130.00	120	Displacement (ft <sup>3</sup> /Hr):	
Return Gas Temp. (°F)	65.00	40	Overall Length (in):	14.29
Liquid Temp. (°F)	130.00	120	Overall Width (in):	12.28
Capacity (BTU/hr)	94100	56600	Overall Height (in):	22.21
Power (W):	9740	8370	Mounting Length (in):	7.50
Current (Amps):	16.2	14.8	Mounting Width (in):	7.50
EER(BTU/Wh):	9.65	6.75	Mounting Height (in):	23.02
Mass Flow (lbs/hr):	1640	986	Suction Size (in),Type:	1 3 / 4 Rotalock
Sound Data @			Discharge Size (in),Type:	1 1 / 4 Rotalock
Sound Power (dBA):	84 Avg	89 Max	Initial Oil Charge (oz):	114
Vibration mils(peak-peak):	4.0 Avg	5.5 Max	Oil Recharge (oz):	110
Record Date:	2019-07-18		Oil Type:	POE
			Net Weight (lbs):	143.0
			Internal Free Volume (in <sup>3</sup> ):	
			Horse Power:	13.0

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

Electrical		Capacitors				
LRA High* (Amps):	150.0	Part No	Low MFD	High MFD	Volts	User Description
LRA Low*(Amps):		No data available in table				
LRA Half Winding (Amps):						

<b>MCC (Amps):</b>	35
<b>Max Operating Current (Amps):</b>	28.2
<b>RLA, MCC/1.4(use for contactor selection)(Amps):</b>	25.0
<b>RLA, MCC/1.56(use for breaker &amp; wire size selection)(Amps):</b>	22.4
<b>RPM:</b>	3500
<b>Box IP :</b>	54
<b>UL File No:</b>	
<b>UL File Date:</b>	

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

#### Alternate Applications

Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	380/420	3	50	High Temp
R-22 HCFC	460	3	60	High Temp
R-22 HCFC	380/420	3	50	High Temp
R-404A HFC	460	3	60	Medium Temperature
R-404A HFC	380/420	3	50	Medium Temperature
R-407A HFC	460	3	60	Medium Temperature
R-407A HFC	380/420	3	50	Medium Temperature
R-407C HFC	460	3	60	High Temp
R-407C HFC	380/420	3	50	High Temp
R-407F HFC	460	3	60	Medium Temperature

#### Service Parts

Service Parts				
Reference	Component	Quantity	Description	Comment
99	006-0542-00	1	SPRING-COIL	
99	510-0370-00	1	VALVE-SCHRADER TYPE	

Category	Part Number	Description
Crankcase Heaters	018-0091-23	Crankcase Heater, 480V, 93W Wrap Around, 48" Lead Length
Crankcase Heaters	018-0091-24	Crankcase Heater, 575V, 93W Wrap Around, 48" Lead Length

### Electrical Components

Electrical Components				
Part No: 071-0573-10	Usage Description: Internal Protector	<b>Stator</b>	Part No: 846-2081-56	Usage Description: Stator
<u>Vendor Part Number</u>	<u>Vendor Name</u>	Resistance: +/-7%	Start Wdg: 1.09	Run Wdg: 0.00
UP28SY0814A5	UBUKATA			

### Nomenclature

ZB95K5E-TFD
<b>Family Series</b>
Z: Scroll
<b>Application Range</b>
B: Ref High/ Med. Temp. -
R-
22/404A/410A/407A/C/F
<b>Capacity</b>
95K: Capacity Multiplier-
1000
<b>Oil Type</b>
E: Polyol Ester
<b>Motor Type</b>
T: 3 Phase
<b>Motor Protection</b>
F: Internal Inherent
Protection
<b>Voltage</b>
D: 60Hz (460-3) 50Hz
(380/420-3)

### Miscellaneous

Refrigerant	Freq	Phase	Voltage	Application
<u>HCFC R-22</u>	60	3 Ø	460 V	R1 HT
<u>HCFC R-22</u>	50	3 Ø	380/420 V	R1 HT
<u>HFC R-407A</u>	60	3 Ø	460 V	R2 MT
<u>HFC R-407A</u>	50	3 Ø	380/420 V	R2 MT
<u>HFC R-134a</u>	50	3 Ø	380/420 V	R1 HT
<u>HFC R-404A</u>	60	3 Ø	460 V	R2 MT
<u>HFC R-404A</u>	50	3 Ø	380/420 V	R2 MT
<u>HFC R-407C</u>	60	3 Ø	460 V	R1 HT
<u>HFC R-407C</u>	50	3 Ø	380/420 V	R1 HT
<u>HFC R-407F</u>	60	3 Ø	460 V	R2 MT

Date	Data Group	Field	Old Data	New Data
22-Mar-2012	Status	Status	P	A
09-Mar-2012	Sound	Sound Start	82	80
09-Mar-2012	Sound	Sound Start Max	90	88
09-Mar-2012	Sound	Sound Stop	77	80
09-Mar-2012	Sound	Sound Stop Max	85	88
24-Nov-2011	Sound	Sound Start	76	82
24-Nov-2011	Sound	Sound Start Max	84	90
24-Nov-2011	Sound	Sound Stop	76	77
24-Nov-2011	Sound	Sound Stop Max	84	85
14-Nov-2011	Sound	Sound Ave	81	82

Reference	Component	Quantity	Description	Comment
99	527-0273-00	1	MOUNTING SPACER ASSM	
99	910-0715-00	1	VALVE-OIL ADJUSTMENT 1/4FL X M9	
99	918-0047-00	1	HEATER-CRANKCASE	120V 90W WRAP AROUND
99	918-0047-01	1	HEATER-CRANKCASE	240V 90W WRAP AROUND
99	918-0047-02	1	HEATER-CRANKCASE	480V 90W WRAP AROUND
99	921-0227-00	1	CONNECTOR BLOCK KIT	
99	943-0159-00	1	CT KIT	CORESENSE CURRENT SENSOR MODULE KIT
99	943-0209-00	1	CORE SENSE K5 SCROLL MODULE	CORESENSE MODULE

## Accessories

Accessories		
Category	Part Number	Description
CoreSense	943-0159-00	CoreSense Current Sensor Module
CoreSense	943-0209-00	CoreSense Module
Crankcase Heaters	918-0047-00	Crankcase Heater Kit, 120V, 93W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0047-01	Crankcase Heater Kit, 240V, 93W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0047-02	Crankcase Heater Kit, 480V, 93W, Wrap Around, 48" Lead Length
Crankcase Heaters	918-0047-03	Crankcase Heater Kit, 575V, 93W, Wrap Around, 48" Lead Length
Crankcase Heaters	018-0091-21	Crankcase Heater, 120V, 93W Wrap Around, 48" Lead Length
Crankcase Heaters	018-0091-22	Crankcase Heater, 240V, 93W Wrap Around, 48" Lead Length