

ZP83KCE-TFD

HFC, R-410A, 60Hz, 3- Phase, 460 V

Air Conditioning



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

Performance

Evap(°F)/Cond(°F)	45 / 130	45 / 100
RG(°F)/Liq(°F)	65.0 / 115.0	65.0 / 85.0
Capacity (Btu/hr)	83000	101000
Power (Watts):	7650	5450
Current (Amps):	11.80	9.40
EER (Btu/Wh):	10.80	18.50
Mass Flow (lbs/hr):	1220	1250
Sound Power (dBA):	75 Avg	80 Max
Vibration (mils(peak-peak)):	2.5 Avg	3.5 Max
Record Date:	2004-05-10	

Mechanical

Number of Cylinders:	0	Displ(in ³ /Rev):	4.71
Bore Size(in):	0.00	Displ(ft ³ /hr):	572.40
Stroke(in):	0.00		
Overall Length (in):	9.69	Mounting Length (in):	7.50
Overall Width (in):	9.69	Mounting Width (in):	7.50
Overall Height (in):	17.91	Mounting Height (in):	18.16 *
Suction Size (in):		7/8 Stub	
Discharge Size (in):		1/2 Stub	
Oil Recharge (oz):		56	
Initial Oil Charge (oz):		60	
Net Weight (lbs):		87	
Internal Free Volume (in ³):		264.5	
Horse Power:			
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

Electrical

LRA-High*:	100.0	MCC (Amps):	19.0	UL File No:	SA-2337
LRA-Half Winding:		RPM:	3500	UL File Date:	26-Jul-1993
LRA Low*:		Max Operating Current:	15.0		
RLA(=MCC/1.4;use for contactor selection):			13.6		
RLA(=MCC/1.56;use for breaker & wire size selection):			12.2		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-410A HFC	50	3	380/420	Air Conditioning

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Service Parts

<u>Reference</u>	<u>Component</u>	<u>Quantity</u>	<u>Description</u>	<u>Comment</u>
2	527-0116-00	1	SPACER-MOUNTING ASSM	
99	529-0060-24	1	POWER CABLE-MOLDED PLUG	
1	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND
1	918-0043-01	1	HEATER-CRANKCASE	480V 70W WRAP AROUND
99	921-0235-00	1	CONNECTOR BLOCK KIT	
99	998-0034-02	1	ADAPTR 7/8 ID TO 11/4-12	SWEAT TO ROTALOCK ADAPTER KIT
99	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT
99	998-0034-15	1	ADAPTER 1/2 ID TO 1-14	SWEAT TO ROTALOCK ADAPTER KIT
99	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT
8	998-0510-90	1	SERV VALVE KIT 7/8 SWT	SUCTION ROTALOCK
7	998-0510-98	1	SERV VALVE KIT 1/2 SWT	DISCHARGE ROTALOCK
99	998-7022-02	1	DISCH LINE T'STAT	FITS 1/2 TUBE
9	998-7024-00	1	HEATER JUNCTION BOX KIT	

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Accessories

<u>PartNumber</u>	<u>Description</u>
018-0095-00	Crankcase Heater, 240V, 70W, 21" Lead Length
018-0095-01	Crankcase Heater, 480V, 70W, 21" Lead Length
018-0095-02	Crankcase Heater, 575V, 70W, 21" Lead Length
018-0095-03	Crankcase Heater, 240V, 70W, 32" Lead Length
018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length
018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length
018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length
018-0095-08	Crankcase Heater, 400V, 70W, 48" Lead Length
018-0095-09	Crankcase Heater, 277V, 70W, 21" Lead Length
527-0116-00	Spacer Mounting Kit, 30-35 Durometer, 1.45" OD, 0.44" ID, 0.75" Height

Common U.S. OEM Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
230	Stub	7/8"	Stub	1/2"	SCREW 1/2	-	-	-	-	-	-
250	Stub	7/8"	Stub	1/2"	SCREW 1/2	-	-	-	-	-	-
265	Rotalock	1 1/4"	Rotalock	1"	SCREW 1/2	-	-	-	-	-	-

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
803	Stub	7/8"	Stub	1/2"		-	-	-	-	-	-
830	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-
899	Stub	7/8"	Stub	1/2"		Yes	-	-	-	-	-

Common U.S. Service Bill Of Materials

	Suction Connection	Suction Size	Discharge Connection	Discharge Size	Electrical Connection	Mounting Assembly	Sight Glass	Crankcase Heater	Schraeder Valve	Tandem Ready	Module Voltage
950	Stub	7/8"	Stub	1/2"	SCREW 1/2	Yes	-	-	-	-	-

* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.