ZPD83KCE-TF5

HFC, R-410A, 60 Hz, 3 - Phase, 200/230 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.

Summary

		Performanc	e	
Evaporator Temp. (°F)			45	45
Condensing Temp. (°F)			130	100
Return Gas Temp. (°F)			65	65
Liquid Temp. (°F)			115	85
Capacity (BTU/hr)			82500	101000
Power (W):			7850	5660
Current (Amps):			23	17.95
EER(BTU/Wh):			10.5	17.85
Mass Flow (Ibs/hr):			1215	1250
Sound Data @				
Sound Power (dBA):			78 Avg	83 Max
Vibration mils(peak-peak):			2.0 Avg	3.0 Max
Record Date:			2008-07-07	
		Mechanica	I	
Displacement (in^3/Rev):	4.71			
Displacement (ft^3/Hr):				
Overall Length (in):	9.69			
Overall Width (in):	9.69			

Overall Height (in):19.46Mounting Length (in):7.50

Mounting Width (in): 7.50

Mounting Height (in):	19.71			
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):	89.9			
Internal Free Volume (in^3)	:			
Horse Power:				
Overall compressor height on	Copeland Brand	Product's sciecifisca l	mounting grom	nets.
LRA High* (Amps):			186.6	
LRA Low*(Amps):				
LRA Half Winding (Amps):				
MCC (Amps):			37.5	
Max Operating Current (An	nps):		33.0	
RLA, MCC/1.4(use for conta	ctor selection)(/	Amps):	26.8	
RLA, MCC/1.56(use for brea	aker & wire size	selection)(Amps):	24.0	
RPM:			3500	
Box IP :			21	
UL File No:			SA2337	
UL File Date:			2003-12-17	
Low and High refer to the low	and high nomina	al voltage ranges for	which the moto	pr is approved.
		Capacitor	s	
Type Part No	Low MFD	High MFD	Volts	User Description
No data available in table				
		Alternate Applie	cations	
Refrigerant	Voltage	Phase	Frequency	Application
R-410A HFC	200/230	3	60	A/C, 50% Load Of Compressor Model
	200/230 200/220	3 3	60 50	

Service Parts

Service Parts					
Reference	Component	Quantity	Description	Comment	
99	527-0116-00	1	SPACER-MOUNTING ASSM		
99	529-0060-24	1	POWER CABLE-MOLDED PLUG		
99	918-0043-00	1	HEATER-CRANKCASE	240V 70W WRAP AROUND	
99	918-0043-07	1	HEATER-CRANKCASE	120V 70W WRAP AROUND	
99	921-0234-00	1	CONNECTOR BLOCK KIT		
99	985-0199-00	1	THERMISTOR KIT	1/2" TUBE DIA FOR EXT DISCHARGE	
99	998-0034-02	1	SERV ADAPTOR KIT 7/8 STUB	SWEAT TO ROTALOCK ADAPTER KIT SUCTION	
99	998-0034-08	1	ADPTR 11/4-12 TO 7/8 ID	ROTALOCK TO SWEAT ADAPTER KIT SUCTION	
99	998-0034-15	1	SERV ADAPTOR KIT 1/2 STUB	SWEAT TO ROTALOCK ADAPTER KIT DISCHARGE	
99	998-0034-18	1	ADAPTER 1-14 TO 1/2 ID	ROTALOCK TO SWEAT ADAPTER KIT DISCHARGE	

Accessories

		Accessories
Category	Part Number	Description
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
Crankcase Heaters	018-0095-04	Crankcase Heater, 240V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-05	Crankcase Heater, 480V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-06	Crankcase Heater, 575V, 70W, 48" Lead Length
Crankcase Heaters	018-0095-07	Crankcase Heater, 120V, 70W, 48" Lead Length

Category	Part Number	Description
~ · · · ·	242 2025 22	

Electrical Components

Electrical Components				
Part No: 071-0519-32	Stator			
Usage Description: Internal Protector	Part No: 546-2104-22			
Vendor Part Number	Usage Description: Stator			
35HM408	Resistance: +/-7%			
Vendor Name	Start Wdg: 0.50			
SENSATA	Run Wdg: 0.00			

Nomenclature

Z: ScrollApplication RangeP: A/C - R-410A/BModulationD: DigitalCapacity83K: Capacity Multiplier-1000Oil TypeE: Polyol EsterMotor TypeT: 3 PhaseMotor ProtectionF: Internal Inherent ProtectionVoltage	Family Series	
P: A/C - R-410A/BModulationD: DigitalCapacity83K: Capacity Multiplier-1000Oil TypeE: Polyol EsterMotor TypeT: 3 PhaseMotor ProtectionF: Internal Inherent Protection	Z: Scroll	
ModulationD: DigitalCapacityCapacity83K: Capacity Multiplier-1000Oil TypeE: Polyol EsterMotor TypeT: 3 PhaseMotor ProtectionF: Internal Inherent Protection	Application Range	
D: DigitalCapacityB3K: Capacity Multiplier-1000Oil TypeE: Polyol EsterMotor TypeT: 3 PhaseMotor ProtectionF: Internal Inherent Protection	P: A/C - R-410A/B	
Capacity83K: Capacity Multiplier-1000Oil TypeE: Polyol EsterMotor TypeT: 3 PhaseMotor ProtectionF: Internal Inherent Protection	Modulation	
83K: Capacity Multiplier-1000 Oil Type E: Polyol Ester Motor Type T: 3 Phase Motor Protection F: Internal Inherent Protection	D: Digital	
Oil Type E: Polyol Ester Motor Type T: 3 Phase Motor Protection F: Internal Inherent Protection	Capacity	
E: Polyol Ester Motor Type T: 3 Phase Motor Protection F: Internal Inherent Protection	83K: Capacity Multiplier-1000	
Motor Type T: 3 Phase Motor Protection F: Internal Inherent Protection	Oil Type	
T: 3 Phase Motor Protection F: Internal Inherent Protection	E: Polyol Ester	
Motor Protection F: Internal Inherent Protection	Motor Type	
F: Internal Inherent Protection	T: 3 Phase	
	Motor Protection	
Voltage	F: Internal Inherent Protection	
	Voltage	

Miscellaneous

		Alternate A	application		
Refrigerant	Freq	Phase	Voltage	Application	

Refrigerant	Freq	Phase	Voltage	Applie	ation
<u>HFC R-410A</u>	50	3 Ø	200/220 V	R1 AC	
UEC D 4104	40	ک م Nomenc ZPD83KC		D1 AE	
Date	Data Group	Field		Old Data	New Data
Date 07-Jul-2008	Data Group Status	Field Status		Old Data P	New Data A

07-Jul-2008	Rating	PubCode		Y
05-Feb-2008	Rating	PubCode		PRE
07-Jul-2008	2 Pt Perf	Amp Cond 1	18	18.1
07-Jul-2008	2 Pt Perf	Amp Cond 1	23.5	23
07-Jul-2008	2 Pt Perf	Amp Cond 2	17.9	17.95
07-Jul-2008	2 Pt Perf	Amp Cond 2	15.7	15.75
07-Jul-2008	2 Pt Perf	Cap Cond 1	31500	32400
07-Jul-2008	2 Pt Perf	Cap Cond 2	40500	41500