

3DS3F46KE-TFC



HFC, R-507, Mid Point, 60 Hz, 3 - Phase, 208/230 V

Low Temp, Low Condensing

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)	-25/105	-40/105
RG(°F)/Liq(°F)	65/105	65/105
Capacity (Btu/hr):	47300	30300
Power (Watts):	8750	6700
Current (Amps):	27.4	22.8
EER (Btu/Wh):	5.4	4.5
Mass Flow (lbs/hr):	825.0	520.0
Sound Power(dBA):	0 Ave 0 Max	
Vibration (mils(peak-peak)):	0.0 Ave 0.0 Max	
Record Date:	2006-07-05	

Mechanical

Number of Cylinders:	3	Displ (in ³ /Rev):	35.012
Bore Size (in):	2.438	Displ (ft ³ /hr):	2127.413
Stroke (in):	2.5		
Overall Length (in):	26.78	Mounting Length (in):	15.0
Overall Width (in):	15.06	Mounting Width(in):	12.0
Overall Height (in):	18.03	Mounting Height (in):	19.06*
Suction Size (in):	1 3/8 Sweat		
Discharge Size (in):	1 1/8 Sweat		
Initial Oil Charge (oz):	125		
Oil Recharge (oz):	115		
Net Weight (lbs):	385.0		
Internal Free Volume (in ³):			
HorsePower	7.0		
* Overall compressor height on Copeland Brand Product's specified mounting grommets			

Electrical

LRA-High*:	215.0	MCC (Amps):	58.0	UL File No.:	SA-2337
LRA-Half Winding:		RPM:		UL File Date:	26-Jul-1985
LRA-Low*:		Max Operating Current:			
RLA(=MCC/1.4; use for contactor selection):	41.4				
RLA (=MCC/1.56; use for breaker & wire size selection):	37.2				
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

Alternate Applications

Refrigerant	Frequency(Hz)	Phase	Voltage	Application
R-12 CFC	50	3	200/220	
R-12 CFC	50	3	200/220	
R-134a HFC	50	3	200/220	
R-134a HFC	50	3	200/220	High Temperature
R-22 HCFC	50	3	200/220	Low Temperature
R-404A HFC	50	3	200/220	Low Temp, Low Condensing
R-407A HFC	50	3	200/220	
R-407C HFC	50	3	200/220	
R-502 CFC	50	3	200/220	
R-507 HFC	50	3	200/220	Low Temp, Low Condensing
R-12 CFC	60	3	208/230	
R-12 CFC	60	3	208/230	
R-134a HFC	60	3	208/230	
R-134a HFC	60	3	208/230	High Temperature
R-22 HCFC	60	3	208/230	Low Temperature
R-404A HFC	60	3	208/230	Low Temp, Low Condensing
R-407A HFC	60	3	208/230	Low Temp, Low Condensing
R-407A HFC	60	3	208/230	Low Temperature
R-407C HFC	60	3	208/230	Low Temp, Low Condensing

Alternate Applications

<u>Refrigerant</u>	<u>Frequency(Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
R-407C HFC	60	3	208/230	Low Temperature
R-502 CFC	60	3	208/230	

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Service Parts

Reference	Component	Quantity	Description	Comments
65	003-0107-00	1	PLATE-RESTRICTOR	2474138
31	003-0770-00	1	PLATE-BOTTOM	2728153
10	005-0650-03	1	COVER-STATOR	
13	020-0012-09	1	GASKET-SERVICE VALVE	2880908 SUCTION
64	020-0012-09	2	GASKET-SERVICE VALVE	2880908 GASKET REQUIRED ON BOTH SIDES OF MUFFLER PLATE
35	020-0028-03	1	SEAL-ROTALOCK FITTING	TEFLON 1.500 O.D. DISCHARGE
15	020-0146-00	1	GASKET-TERM MTG PLATE	
61	020-0297-13	1	GASKET-SENTRONIC SENSOR	
36	020-0678-00	1	GASKET-CLOSURE PLATE	
7	020-0681-02	1	GASKET-BOTTOM PLATE	2951502
9	020-0709-00	1	GASKET-STATOR COVER	
1	020-0730-00	1	GASKET-CYLINDER HEAD	
5	020-0732-00	1	GASKET-OIL PUMP	2942708
4	020-0749-00	1	GASKET-HOUSING COVER	
25	020-0844-04	1	SEAL-SIGHT GLASS	2042028
52	030-0187-00	1	SLEEVE-HEATER	
17	062-0205-00	1	BOX-TERMINAL	
44	080-0026-00	1	BLOCK-TERMINAL	
19	503-0804-00	1	PLATE-TERMINAL GROUP	
20	505-0281-08	1	COVER-TERMINAL ASSM	
33	510-0142-00	1	VALVE-OIL CHECK ASSM	2852661
24	510-0191-00	1	VALVE-SCHRADER TEE	INSTALLED IN OIL PUMP
41	527-0045-00	1	SPACER-MOUNTING ASSM	
69	910-0352-02	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 120V/60HZ
69	910-0352-03	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 240V/60HZ
69	910-0352-08	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 240V/50HZ
69	910-0352-10	1	DEMAND COOL VLV & COIL	COIL VOLTAGE 120V/50HZ
30	918-0028-00	1	HEATER-CC--100W/120V	WELD
30	918-0028-01	1	HEATER-CC--100W/240V	WELD
72	920-0981-03	1	V-PLATE GASKET KIT	DELTA REED
8	998-0002-02	1	SIGHT GLASS KIT	
6	998-0008-33	1	OIL PUMP KIT	WITH VALVESBOLTSGASKETS& ADAPTER RING
46	998-0036-00	1	ROTALOCK ADAPTER KIT	ADAPTER USED TO MOUNT A ROTALOCK DISCHARGE SERVICE VALVE
21	998-0429-00	1	PROTECTOR & GASKET KIT	
26	998-0510-02	1	SERV VALVE KIT 1 1/8 SWT	ROTALOCKDISCHARGE
14	998-0510-11	1	SERV VALVE KIT 1 3/8 SWT	2 BOLTSUCTION
29	998-0513-03	1	OIL SCREEN KIT	
62	998-0513-04	1	SUCTION SCREEN KIT	
32	998-0700-02	1	BRACKET KIT	
70	998-1000-13	1	DEMAND COOL KIT	120V 60 HZ
71	998-1000-23	1	DEMAND COOLING KIT	240V 60 HZ
70	998-1001-13	1	DEMAND COOL 120V/50 HZ	
71	998-1001-23	1	DEMAND COOL 240V/ 50 HZ	
40	998-1669-04	1	GASKET SET	
3	998-2661-43	1	VALVE PLATE KIT	
27	998-5100-02	1	SUCT & DISCH VALVE KIT	WITH VALVESBOLTS& GASKETS