

3DB3F33KE-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): | 34000 | 21300 |
| Power (Watts): | 6450 | 4960 |
| Current (Amps): | 21 | 17.8 |
| EER (Btu/Wh): | 5.3 | 4.3 |
| Mass Flow (lbs/hr): | 630.0 | 386.0 |
| Sound Power(dBA): | 0 Ave 0 Max | |
| Vibration (mils(peak-peak)): | 0.0 Ave 0.0 Max | |
| Record Date: | 2006-03-28 | |

Mechanical

| | | | |
|---|-------------|-------------------------------|----------|
| Number of Cylinders: | 3 | Displ (in ³ /Rev): | 26.581 |
| Bore Size (in): | 2.375 | Displ (ft ³ /hr): | 1615.108 |
| Stroke (in): | 2.0 | | |
| Overall Length (in): | 25.81 | 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 | 5.5 | | |
| * Overall compressor height on Copeland Brand Product's specified mounting brackets | | | |

Electrical

| | | | | | |
|---|-------|------------------------|------|---------------|-------------|
| LRA-High*: | 161.0 | MCC (Amps): | 43.0 | 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): | 30.7 | | | | |
| RLA (=MCC/1.56; use for breaker & wire size selection): | 27.6 | | | | |
| *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

| <u>Reference</u> | <u>Component</u> | <u>Quantity</u> | <u>Description</u> | <u>Comments</u> |
|------------------|------------------|-----------------|--------------------------|--|
| 65 | 003-0107-00 | 1 | PLATE-RESTRICTOR | 2474138 |
| 31 | 003-0770-00 | 1 | PLATE-BOTTOM | 2728153 |
| 10 | 005-0649-01 | 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 | |
| 48 | 020-0844-02 | 1 | SEAL | FOR T CLUSTER 521-0018-00 |
| 25 | 020-0844-04 | 1 | SEAL-SIGHT GLASS | 2042028 |
| 52 | 030-0187-00 | 1 | SLEEVE-HEATER | |
| 17 | 062-0205-00 | 1 | BOX-TERMINAL | |
| 19 | 503-0346-01 | 1 | PLATE-TERMINAL GROUP | |
| 20 | 505-0281-04 | 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 |
| 49 | 521-0018-00 | 1 | TERMINAL-FUSED CLUSTER | |
| 41 | 527-0009-00 | 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 | 920-0981-00 | 1 | V-PLATE GASKET KIT | DELTA REED |
| 8 | 998-0002-02 | 1 | SIGHT GLASS KIT | |
| 6 | 998-0008-33 | 1 | OIL PUMP KIT | WITH OIL PUMPBOLTSGASKETS& ADAPTER RING |
| 46 | 998-0036-00 | 1 | ROTALOCK ADAPTER KIT | ADAPTER USED TO MOUNT A ROTALOCK DISCHARGE SERVICE VALVE |
| 21 | 998-0429-04 | 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 |