

ZR54K5E-TFD

HCFC, R-22, 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 | 50 / 100 |
| RG(°F)/Liq(°F) | 65 / 115 | 70 / 85 |
| Capacity (Btu/hr) | 53500 | 69400 |
| Power (Watts): | 4740 | 3140 |
| Current (Amps): | 6.80 | 5.10 |
| EER (Btu/Wh): | 11.30 | 22.10 |
| Mass Flow (lbs/hr): | 785 | 889 |
| Sound Power (dBA): | 73 Avg | 78 Max |
| Vibration (mils(peak- Vibration (mils(peak-)) | 2.0 Avg | 3.0 Max |
| Record Date: | 2014-04-15 | |

Mechanical

| | | | |
|---|------------------------------|-----------------------------|---------|
| Number of Cylinders:0 | Displ(in ³ /Rev): | 4.39 | |
| Bore Size(in): | 0.00 | Displ(ft ³ /hr): | 534.12 |
| 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): | 16.94 | Mounting Height (in): | 17.17 * |
| Suction Size (in): | 7/8 Stub | | |
| Discharge Size (in): | 1/2 Stub | | |
| Oil Recharge (oz): | 34 | | |
| Initial Oil Charge (oz): | 42 | | |
| Net Weight (lbs): | 68.3 | | |
| Internal Free Volume (in ³): | 193.0 | | |
| Horse Power: | 4.5 | | |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. | | | |

Electrical

| | | | | | |
|---|------|------------------------|------|---------------|---------|
| LRA-High*: | 52.0 | MCC (Amps): | 11.0 | UL File No: | SA-2337 |
| LRA-Half Winding: | | RPM: | | UL File Date: | |
| LRA Low*: | | Max Operating Current: | 10.0 | | |
| RLA(=MCC/1.4;use for contactor selection): | | 7.9 | | | |
| RLA(=MCC/1.56;use for breaker & wire size) | | 7.1 | | | |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. | | | | | |

Alternate Applications

| Refrigerant | Freq (Hz) | Phase | Voltage | Application |
|-------------|-----------|-------|---------|------------------|
| R-407C HFC | 50 | 3 | 380/420 | Air Conditioning |
| R-22 HCFC | 50 | 3 | 380/420 | Air Conditioning |
| R-407C HFC | 60 | 3 | 460 | 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 | |
| 14 | 529-0060-24 | 1 | POWER CABLE-MOLDED PLUG | |
| 1 | 918-0041-00 | 1 | HEATER-CRANKCASE | 240V 40W WRAP AROUND |
| 1 | 918-0041-01 | 1 | HEATER-CRANKCASE | 120V 40W WRAP AROUND |

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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 |
| 018-0096-00 | Crankcase Heater, 240V, 40W, 21.75" Lead Length |
| 018-0096-01 | Crankcase Heater, 120V, 40W, 21.75" Lead Length |
| 018-0096-02 | Crankcase Heater, 480V, 40W, 21.75" Lead Length |
| 018-0096-03 | Crankcase Heater, 575V, 40W, 21.75" Lead Length |
| 018-0096-04 | Crankcase Heater, 240V, 40W, 48.25" Lead Length |
| 018-0096-05 | Crankcase Heater, 480V, 40W, 48.25" Lead Length |
| 018-0096-06 | Crankcase Heater, 240V, 40W, 31.75" Lead Length |

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 |
|-----|--------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------|------------------|-----------------|--------------|----------------|
| 800 | Stub | 7/8" | Stub | 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.