

ZS21KAE-TF5

HCFC, R-22, 60 Hz, 3 -Phase, 200/230 V
High Temp



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

Performance

| | | |
|----------------------------|------------|---------|
| Evaporator Temp. (°F) | 45 | 20 |
| Condensing Temp. (°F) | 130 | 120 |
| Return Gas Temp. (°F) | 65 | 40 |
| Liquid Temp. (°F) | 130 | 120 |
| Capacity (Btu/hr) | 36100 | 23400 |
| Power (W): | 3430 | 2740 |
| Current (Amps): | 11.30 | 9.55 |
| EER (Btu/Wh): | 10.55 | 8.55 |
| Mass Flow (lbs/hr): | 571 | 365 |
| <u>Sound Data @</u> | | |
| Sound Power (dBA): | 76 Avg | 81 Max |
| Vibration mils(peak-peak): | 2.0 Avg | 3.0 Max |
| Record Date: | 2012-12-13 | |

Mechanical

| | |
|--|----------|
| Displacment(in ³ /Rev): | 3.11 |
| Displacment(ft ³ /hr): | 377.71 |
| Overall Length (in): | 9.69 |
| Overall Width (in): | 9.69 |
| Overall Height (in): | 16.94 |
| Mounting Length (in): | 7.50 |
| Mounting Width (in): | 7.50 |
| Mounting Height (in): | 17.17 * |
| Suction Size (in),Type: | 7/8 Stub |
| Discharge Size (in),Type: | 1/2 Stub |
| Initial Oil Charge (oz): | 42 |
| Oil Recharge (oz): | 34 |
| Net Weight (lbs): | 64.0 |
| Internal Free Volume (in ³): | 226.0 |
| Horse Power: | 3.20 |

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

Electrical

| | |
|--|------------|
| LRA-High*(Amp): | 93.0 |
| LRA Low* (Amp): | |
| LRA-Half Winding (Amp): | |
| MCC (Amps): | 19.0 |
| Max Operating Current(Amp): | 14.0 |
| RLA, MCC/1.4;use for contactor selection (Amp): | 13.6 |
| RLA, MCC/1.56;use for breaker & wire size selection (Amp): | 12.2 |
| RPM: | 3500 |
| UL File No: | SA-2337 |
| UL File Date: | 2003-12-17 |

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

Capacitors

Alternate Applications

| Refrigerant | Voltage | Phase | Freq (Hz) | Application |
|-------------|---------|-------|-----------|----------------------|
| R-134a HFC | 200/220 | 3 | 50 | High Temp |
| R-134a HFC | 200/230 | 3 | 60 | High Temp |
| R-404A HFC | 200/220 | 3 | 50 | Extended Medium Temp |
| R-404A HFC | 200/230 | 3 | 60 | Extended Medium Temp |
| R-404A HFC | 200/220 | 3 | 50 | Medium Temperature |
| R-404A HFC | 200/230 | 3 | 60 | Medium Temperature |
| R-507 HFC | 200/220 | 3 | 50 | Extended Medium Temp |
| R-507 HFC | 200/220 | 3 | 50 | Medium Temperature |
| R-507 HFC | 200/230 | 3 | 60 | Medium Temperature |
| R-507 HFC | 200/230 | 3 | 60 | Extended Medium Temp |

Alternate Applications

| <u>Refrigerant</u> | <u>Voltage</u> | <u>Phase</u> | <u>Freq (Hz)</u> | <u>Application</u> |
|--------------------|----------------|--------------|------------------|----------------------|
| R-22 HCFC | 200/220 | 3 | 50 | High Temp |
| R-407C HFC | 200/220 | 3 | 50 | High Temp |
| R-407C HFC | 200/230 | 3 | 60 | High Temp |
| R-407A HFC | 200/220 | 3 | 50 | Extended Medium Temp |
| R-407A HFC | 200/230 | 3 | 60 | Extended Medium Temp |
| R-448A HFO | 200/220 | 3 | 50 | Extended Medium Temp |
| R-448A HFO | 200/230 | 3 | 60 | Extended Medium Temp |
| R-448A HFO | 200/220 | 3 | 50 | Medium Temperature |
| R-448A HFO | 200/230 | 3 | 60 | Medium Temperature |
| R-449A HFO | 200/220 | 3 | 50 | Extended Medium Temp |
| R-449A HFO | 200/220 | 3 | 50 | Medium Temperature |
| R-449A HFO | 200/230 | 3 | 60 | Medium Temperature |
| R-449A HFO | 200/230 | 3 | 60 | Extended Medium Temp |