

ZR90K3E-TWD

HFC, R-407C, 50Hz, 3- Phase, 380/420 V

Air Conditioning



Production Status: This compressor and/or application of this compressor is not available to U.S. OEM customers. A field replacement is currently available through a U.S. Emerson Climate Technologies Wholesaler. Please check with your local Emerson Climate Technologies Representative for international availability.

Performance

| | | |
|------------------------------|-----------------|-----------------|
| Evap(°F)/Cond(°F) | <u>45 / 130</u> | <u>45 / 100</u> |
| RG(°F)/SubCool(°F) | <u>65 / 15</u> | <u>65 / 15</u> |
| Capacity (Btu/hr) | 72000 | 87500 |
| Power (Watts): | 6650 | 4460 |
| Current (Amps): | 12.95 | 10.65 |
| EER (Btu/Wh): | 10.80 | 19.60 |
| Mass Flow (lbs/hr): | 1050 | 1080 |
| Sound Power (dBA): | 77 Avg | 82 Max |
| Vibration (mils(peak-peak)): | 2.5 Avg | 3.5 Max |
| Record Date: | 2007-12-04 | |

Mechanical

| | | | |
|---|------------|------------------------------|---------|
| Number of Cylinders: | 0 | Displ(in ³ /Rev): | 7.32 |
| Bore Size(in): | 0.00 | Displ(ft ³ /hr): | 736.98 |
| Stroke(in): | 0.00 | | |
| Overall Length (in): | 12.57 | Mounting Length (in): | 8.65 |
| Overall Width (in): | 14.06 | Mounting Width (in): | 8.65 |
| Overall Height (in): | 21.17 | Mounting Height (in): | 21.40 * |
| Suction Size (in): | 1 3/8 Stub | | |
| Discharge Size (in): | 7/8 Stub | | |
| Oil Recharge (oz): | 137 | | |
| Initial Oil Charge (oz): | 140 | | |
| Net Weight (lbs): | 207 | | |
| Internal Free Volume (in ³): | 1037.0 | | |
| Horse Power: | | | |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. | | | |

Electrical

| | | | | | |
|---|----|------------------------|------|---------------|-------------|
| LRA-High*: | 99 | MCC (Amps): | 21.5 | UL File No: | SA-9747 |
| LRA-Half Winding: | | RPM: | | UL File Date: | 12-Jul-1994 |
| LRA Low*: | 89 | Max Operating Current: | 17.0 | | |
| RLA(=MCC/1.4;use for contactor selection): | | | 15.4 | | |
| RLA(=MCC/1.56;use for breaker & wire size) | | | 13.8 | | |
| *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-134a HFC | 60 | 3 | 460 | Air Conditioning |
| R-22 HCFC | 60 | 3 | 460 | Air Conditioning |
| R-407C HFC | 60 | 3 | 460 | Air Conditioning |
| R-134a HFC | 50 | 3 | 380/420 | Air Conditioning |
| R-22 HCFC | 50 | 3 | 380/420 | Air Conditioning |