

MRB1-050A-TFC

CFC, R-502, 60Hz, 3- Phase, 208/230 V

Low Temperature



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) | -25 / 105 | -40 / 105 |
| RG(°F)/Liq(°F) | 65.0 / 105.0 | 65.0 / 105.0 |
| Capacity (Btu/hr) | 21400 | 12900 |
| Power (Watts): | 4490 | 3320 |
| Current (Amps): | 15.00 | 12.30 |
| EER (Btu/Wh): | 4.80 | 3.90 |
| Mass Flow (lbs/hr): | 421 | 253 |
| Sound Power (dBA): | 0 Avg | 0 Max |
| Vibration (mils(peak-peak)): | 0.0 Avg | 0.0 Max |
| Record Date: | 2007-01-22 | |

Mechanical

| | | | |
|---|-------------|------------------------------|---------|
| Number of Cylinders: | 2 | Displ(in ³ /Rev): | 19.62 |
| Bore Size(in): | 2.62 | Displ(ft ³ /hr): | 1192.37 |
| Stroke(in): | 1.81 | | |
| Overall Length (in): | 22.44 | Mounting Length (in): | 11.63 |
| Overall Width (in): | 13.00 | Mounting Width (in): | 11.00 |
| Overall Height (in): | 16.94 | Mounting Height (in): | 18.00 * |
| Suction Size (in): | 1 3/8 Sweat | | |
| Discharge Size (in): | 7/8 Sweat | | |
| Oil Recharge (oz): | 70 | | |
| Initial Oil Charge (oz): | 80 | | |
| Net Weight (lbs): | 261 | | |
| Internal Free Volume (in ³): | | | |
| Horse Power: | | | |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. | | | |

Electrical

| | | | | | |
|---|-------|------------------------|------|---------------|-------------|
| LRA-High*: | 115.0 | MCC (Amps): | 29.7 | UL File No: | SA-2337 |
| LRA-Half Winding: | | RPM: | 3500 | UL File Date: | 26-Apr-1972 |
| LRA Low*: | | Max Operating Current: | | | |
| RLA(=MCC/1.4;use for contactor selection): | | | 21.2 | | |
| RLA(=MCC/1.56;use for breaker & wire size selection): | | | 19 | | |
| *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-502 CFC | 50 | 3 | 200/220 | Low Temperature |
| R-12 CFC | 50 | 3 | 200/220 | Medium Temperature |
| R-12 CFC | 60 | 3 | 208/230 | Medium Temperature |