

# ARE51C4-CAA

CFC, R-12, 60Hz, 1- Phase, 115 V  
High Temp



**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)            | 45 / 130     | 20 / 120     |
| RG(°F)/Liq(°F)               | 65.0 / 130.0 | 65.0 / 120.0 |
| Capacity (Btu/hr)            | 4600         | 2940         |
| Power (Watts):               | 840          | 645          |
| Current (Amps):              | 9.00         | 7.80         |
| EER (Btu/Wh):                | 5.50         | 4.50         |
| Mass Flow (lbs/hr):          | 99           | 59           |
| Sound Power (dBA):           | 0 Avg        | 0 Max        |
| Vibration (mils(peak-peak)): | 0.0 Avg      | 0.0 Max      |
| Record Date:                 | 2012-04-02   |              |

## Mechanical

|   |           |                              |        |
|---|-----------|------------------------------|--------|
| Number of Cylinders:  | 1         | Displ(in <sup>3</sup> /Rev): | 0.49   |
| Bore Size(in):  | 1.00      | Displ(ft <sup>3</sup> /hr):  | 59.75  |
| Stroke(in):   | 0.63      |                              |        |
| Overall Length (in):  | 10.50     | Mounting Length (in):        | 6.50   |
| Overall Width (in):   | 6.40      | Mounting Width (in):         | 4.00   |
| Overall Height (in):  | 8.12      | Mounting Height (in):        | 8.62 * |
| Suction Size (in):  | 5/16 Stub |                              |        |
| Discharge Size (in):  | 1/4 Stub  |                              |        |
| Oil Recharge (oz):  | 10        |                              |        |
| Initial Oil Charge (oz):  | 12        |                              |        |
| Net Weight (lbs):   | 22.9      |                              |        |
| Internal Free Volume (in <sup>3</sup> ):  |           |                              |        |
| Horse Power:  |           |                              |        |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |           |                              |        |

## Electrical

|   |             |                        |          |               |                  |
|---|-------------|------------------------|----------|---------------|------------------|
| LRA-High*:  | 48.0        | MCC (Amps):            | 14.7     | UL File No:   |                  |
| LRA-Half Winding:   |             | RPM:                   | 3500     | UL File Date: |                  |
| LRA Low*:   |             | Max Operating Current: |          |               |                  |
| RLA(=MCC/1.4;use for contactor selection):  |             | 10.5                   |          |               |                  |
| RLA(=MCC/1.56;use for breaker & wire size selection):   |             | 9.4                    |          |               |                  |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. |             |                        |          |               |                  |
| Type  | Part No     | Low MFD                | High MFD | Volts         | User Description |
| Start Capacitor   | 014-0061-34 | 243.0                  | 292.0    | 250           |                  |
| Run Capacitor   | 014-0064-13 | 35.0                   | 0.0      | 440           |                  |

## Alternate Applications

| Refrigerant | Freq (Hz) | Phase | Voltage | Application |
|-------------|-----------|-------|---------|-------------|
|-------------|-----------|-------|---------|-------------|