

# ZP83KCE-TF5

HFC, R-410A, 60 Hz, 3 -phase, 200/230 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     | 45 / 100    |
| RG(°F)/Liq(°F)               | 65.0 / 115.0 | 65.0 / 85.0 |
| Capacity (Btu/hr)            | 83000        | 101000      |
| Power (Watts):               | 7650         | 5450        |
| Current (Amps):              | 22.00        | 16.60       |
| EER (Btu/Wh):                | 10.80        | 18.50       |
| Mass Flow (lbs/hr):          | 1220         | 1250        |
| Sound Data @                 |              |             |
| Sound Power (dBA):           | 75 Avg       | 80 Max      |
| Vibration (mils(peak-peak)): | 2.5 Avg      | 3.5 Max     |
| Record Date:                 | 2004-05-10   |             |

## Mechanical

|   |       |                              |         |
|---|-------|------------------------------|---------|
| Number of Cylinders:  | 0     | Displ(in <sup>3</sup> /Rev): | 4.71    |
| Bore Size(in):  | 0.00  | Displ(ft <sup>3</sup> /hr):  | 572.40  |
| 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):  | 17.91 | Mounting Height (in):        | 18.16 * |
| Suction Size (in):  |       | 7/8 Stub                     |         |
| Discharge Size (in):  |       | 1/2 Stub                     |         |
| Oil Recharge (oz):  |       | 56                           |         |
| Initial Oil Charge (oz):  |       | 60                           |         |
| Net Weight (lbs):   |       | 87                           |         |
| Internal Free Volume (in <sup>3</sup> ):  |       | 264.5                        |         |
| Horse Power:  |       |                              |         |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |       |                              |         |

## Electrical

|   |       |                        |      |               |             |
|---|-------|------------------------|------|---------------|-------------|
| LRA-High*:  | 164.0 | MCC (Amps):            | 39.0 | UL File No:   | SA-2337     |
| LRA-Half Winding:   |       | RPM:                   | 3500 | UL File Date: | 26-Jul-1993 |
| LRA Low*:   |       | Max Operating Current: | 33.0 |               |             |
| RLA(=MCC/1.4;use for contactor selection):  |       | 27.9                   |      |               |             |
| RLA(=MCC/1.56;use for breaker & wire size selection):   |       | 25                     |      |               |             |
| *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-410A HFC  | 50        | 3     | 200/220 | Air Conditioning |