

## ZP83KCE-TFD

HFC, R-410A, 50 Hz, 3 -Phase, 380/420 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

|                          |            |         |
|--------------------------|------------|---------|
| Evaporator Temp.(°C)     | 7          | 7       |
| Condensing Temp.(°C)     | 54         | 38      |
| Return Gas Temp.(°C)     | 18         | 18      |
| Liquid Temp.(°C)         | 46         | 29      |
| Capacity (Watts)         | 19900      | 24600   |
| Power (W):               | 6400       | 4400    |
| Current (Amps):          | 11.70      | 9.10    |
| COP:                     | 3.11       | 5.57    |
| Mass Flow (g/s):         | 126        | 131     |
| <u>Sound Data @</u>      |            |         |
| Sound Power (dBA):       | 72 Avg     | 77 Max  |
| Vibration mm(peak-peak): | 0.1 Avg    | 0.1 Max |
| Record Date:             | 2004-05-10 |         |

### Electrical

|                                                                                                 |            |
|-------------------------------------------------------------------------------------------------|------------|
| LRA-High* (Amp):                                                                                | 101.0      |
| LRA Low* (Amp):                                                                                 | 90.5       |
| LRA-Half Winding (Amp):                                                                         |            |
| MCC (Amps):                                                                                     | 19.0       |
| Max Operating Current (Amp):                                                                    | 15.0       |
| 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:                                                                                            | 2900       |
| Box IP                                                                                          | 21         |
| UL File No:                                                                                     |            |
| UL File Date:                                                                                   | 1993-07-26 |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. |            |

### Mechanical

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| Displacment(cm^3/Rev):                                                              | 77.20      |
| Displacment                                                                         | 13.43      |
| Overall Length                                                                      | 246.13     |
| Overall Width (mm):                                                                 | 246.13     |
| Overall Height                                                                      | 454.91     |
| Mounting Length (mm):                                                               | 190.50     |
| Mounting Width (mm):                                                                | 190.50     |
| Mounting Height (mm):                                                               | 461.26 *   |
| Suction Size (mm),Type:                                                             | 22.22 Stub |
| Discharge Size (mm),Type:                                                           | 12.69 Stub |
| Initial Oil Charge (ml):                                                            | 1774       |
| Oil Recharge (ml):                                                                  | 1656       |
| Net Weight (kg):                                                                    | 39.5       |
| Internal Free Volume (cm^3):                                                        | 4335.2     |
| Horse Power:                                                                        |            |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |            |

### Capacitors

### Alternate Applications

| <u>Refrigerant</u> | <u>Voltage</u> | <u>Phase</u> | <u>Freq (Hz)</u> | <u>Application</u> |
|--------------------|----------------|--------------|------------------|--------------------|
| R-410A HFC         | 460            | 3            | 60               | Air Conditioning   |