

# ZR16M3E-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

<u>Evap(°F)/Cond(°F)</u>	<u>45 / 130</u>	<u>45 / 100</u>
<u>RG(°F)/SubCool(°F)</u>	<u>65 / 15</u>	<u>65 / 15</u>
Capacity (Btu/hr)	123000	149000
Power (Watts):	11400	7800
Current (Amps):	19.25	14.75
EER (Btu/Wh):	10.80	19.10
Mass Flow (lbs/hr):	1790	1850
Sound Power (dBA):	80 Avg	85 Max
Vibration (mils(peak- Record Date: 2007-12-04	2.5 Avg	3.5 Max

## Mechanical

Number of Cylinders:	0	Displ(in <sup>3</sup> /Rev):	12.47
Bore Size(in):	0.00	Displ(ft <sup>3</sup> /hr):	1255.55
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):	21.47	Mounting Height (in):	21.70 *
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):		227	
Internal Free Volume (in <sup>3</sup> ):		1059.0	
Horse Power:		13	
*Overall compressor height on Copeland Brand Product's specified mounting grommets.			

## Electrical

LRA-High*:	167	MCC (Amps):	38.1	UL File No:	SA-9747
LRA-Half Winding:		RPM:		UL File Date:	12-Jul-1994
LRA Low*:	151	Max Operating Current:	27.0		
RLA(=MCC/1.4;use for contactor selection):			27.2		
RLA(=MCC/1.56;use for breaker & wire size			24.4		
*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.					

## Alternate Applications

<u>Refrigerant</u>	<u>Freq (Hz)</u>	<u>Phase</u>	<u>Voltage</u>	<u>Application</u>
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