

ZR16M3E-TWD

HCFC, R-22, 60 Hz, 3 - Phase, 460 V , [Also Available with Variable Frequency Drives](#)

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			Mechanical					
Evaporator Temp. (°F)	45.00	45	Displacement (in^3/Rev):			12.47		
Condensing Temp. (°F)	130.00	100	Displacement (ft^3/Hr):					
Return Gas Temp. (°F)	65.00	65	Overall Length (in):			12.57		
Liquid Temp. (°F)	115.00	85	Overall Width (in):			14.06		
Capacity (BTU/hr)	154000	181000	Overall Height (in):			21.47		
Power (W):	13500	9950	Mounting Length (in):			8.65		
Current (Amps):	19.15	14.85	Mounting Width (in):			8.65		
EER(BTU/Wh):	11.4	18.2	Mounting Height (in):			21.70		
Mass Flow (lbs/hr):	2260	2340	Suction Size (in),Type:			1 3 / 8 Stub		
Sound Data @			Discharge Size (in),Type:			7 / 8 Stub		
Sound Power (dBA):	83 Avg	88 Max	Initial Oil Charge (oz):			140		
Vibration mils(peak-peak):	2.5 Avg	3.5 Max	Oil Recharge (oz):			137		
Record Date:	2007-12-04		Oil Type:			3MA		
			Net Weight (lbs):			227.0		
			Internal Free Volume (in^3):			1059.0		
			Horse Power:			13.0		
			*Overall compressor height on Copeland Brand Product's specified mounting grommets.					
Electrical			Capacitors					
LRA High* (Amps):	158		Type	Part No	Low MFD	High MFD	Volts	User Description
LRA Low*(Amps):			No data available in table					
LRA Half Winding (Amps):								
MCC (Amps):	38.1							
Max Operating Current (Amps):	27.0							
RLA, MCC/1.4(use for contactor selection)(Amps):	27.2							
RLA, MCC/1.56(use for breaker & wire size selection)(Amps):	24.4							
RPM:	3500							
Box IP :	54							
UL File No:	SA-9747							
UL File Date:	1994-07-12							

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

Alternate Applications				
Refrigerant	Voltage	Phase	Frequency	Application
R-134a HFC	460	3	60	Air Conditioning
R-134a HFC	380/420	3	50	Air Conditioning
R-22 HCFC	380/420	3	50	Air Conditioning
R-407C HFC	460	3	60	Air Conditioning
R-407C HFC	380/420	3	50	Air Conditioning