

<b>COMPRESSOR CODE</b> <b>513307131</b>	<b>DESIGNATION</b> <b>EM 65HHR 220-240 V 50 Hz 1 ~</b>	<b>DATE</b> <b>22SEP04</b>
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**TECHNICAL CHARACTERISTICS**

**A GENERAL INFORMATION**

Pos.	Description	Data		
1	Type	<b>Hermetic reciprocating compressor</b>		
2	Commercial designation	<b>1/6</b>		[hp]
3	Base Plate	<b>European Standard</b>		
4	Tray holder	<b>No</b>		
5	Approval boards certification	<b>IRAM - VDE</b>		
6	Connectors			
6.1	SUCTION - Internal Diameter	<b>8.2 +0.12/-0.08</b>	[mm]	(0.323" +0.005"/-0.003")
6.1.1	Material	<b>Copper</b>		
6.1.2	Shape	<b>Straight</b>		
6.2	DISCHARGE - Internal Diameter	<b>6.5 +0.12/-0.08</b>	[mm]	(0.256" +0.005"/-0.003")
6.2.1	Material	<b>Copper</b>		
6.2.2	Shape	<b>Slanted</b>		
6.3	PROCESS - Internal Diameter	<b>6.5 +0.12/-0.08</b>	[mm]	(0.256" +0.005"/-0.003")
6.3.1	Material	<b>Copper</b>		
6.3.2	Shape	<b>Straight</b>		
6.4	Oilcooler(Copper)	<b>No</b>	[mm]	
6.5	Connector sealing	<b>Rubber Plugs</b>		

**B MECHANICAL DATA**

1	Displacement	<b>5.54</b>	[cm <sup>3</sup> ]	(0.338 cu.in)
2	Starting torque	<b>LST - Low Starting Torque</b>		
3	Lubricant charge	<b>170</b>	[ml]	(5.75 fl.oz.)
3.1	Lubricant type	<b>ESTER</b>		
3.2	Lubricant viscosity @ 40°C	<b>ISO22</b>		
4	Weight (with oil charge)	<b>7.67</b>	[kg]	(16.91 lb.)
5	Nitrogen charge	<b>0.2 to 0.3</b>	[kgf/cm <sup>2</sup> ]	(2.84 to 4.27 psig)

**C APPLICATION**

1	Application type	<b>HBP - High Back Pressure</b>		
1.1	Evaporating temperature range	<b>5°C to 15°C</b>		(41°F to 59°F)
2	Refrigerant	<b>R-134a</b>		
3	Expansion device	<b>Capillary Tube</b>		
4	Compressor cooling	<b>Operating voltage range</b>		
			<b>50 Hz</b>	<b>60 Hz</b>
4.1	LBP (32°C ambient temperature)	-	-	-
4.2	LBP (43°C ambient temperature)	-	-	-
4.3	HBP (32°C ambient temperature)	<b>Fan</b>	<b>198 to 255 V</b>	-
4.4	HBP (43°C ambient temperature)	<b>Fan</b>	<b>198 to 255 V</b>	-
5	Maximum condensing pressures			
5.1	Operating	<b>16.2</b>	[kgf/cm <sup>2</sup> ]	(230 psig)
5.2	Peak	<b>20.6</b>	[kgf/cm <sup>2</sup> ]	(293 psig)

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**D ELECTRICAL DATA**

1	Nominal Voltage/Frequency/Number of Phases	<b>220-240 V 50 Hz 1 ~ (Single Phase)</b>		
2	Application frequency for electrical devices	<b>50</b>	[ Hz ]	
3	Motor type	<b>RSIR</b>		
3.1	Start winding resistance	<b>27.80</b>	[ Ω at 25 °C (77°F) ]	+ / - 8%
3.2	Run winding resistance	<b>13.70</b>	[ Ω at 25 °C (77°F) ]	+ / - 8%
3.3	Maximum winding temperature	<b>130</b>	[ °C ]	
4	LRA - Locked Rotor Amperage (50)	<b>12.50</b>	[A] - measured according to UL 984	
5	FLA - Full Load Amperage LMBP(50)	<b>1.35</b>	[A] - measured according to UL 984	
6	FLA - Full Load Amperage HBP(50)	-	[A] - measured according to UL 984	
7	Starting device type	<b>Current Relay</b>		
7.1	Starting device	<b>213514130</b>		
8	Start capacitor	-	[μF(VAC minimum)]	Not Applicable
9	Run capacitor	-	[μF(VAC minimum)]	Not Applicable
10	Motor protection (External)	<b>4TM734LFBYY-53</b>		

**E CHECK POINT DATA**

1.1	<b>TEST CONDITIONS: @220V50Hz</b>	<b>ASHRAEHBP32 Fan</b>	(Evaporating Temperature 7.2°C (44.96°F)	(Condensing Temperature 54.4°C (129.92°F)
	Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%
	Gas flow Rate +/- 5%	EFFICIENCY RATE +/- 7%		
	[Btu/h]	[kcal/h]	[W]	[W/W]
	<b>2180</b>	<b>549</b>	<b>639</b>	<b>2.61</b>
			<b>245.00</b>	<b>1.42</b>
				<b>8.90</b>
				<b>2.24</b>