

COMPRESSOR DEFINITION

Designation	NJ6226Z
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	142HA04



A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R134a		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	High Back Pressure		
4.1 Evaporating temperature range	-15°C to +10°C		
5 Motor type	CSR		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	Fan cooled	Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	13.9	[bar]	
9.2 Peak (gauge)	15.8	[bar]	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1 1/4	[hp]
2 Displacement	34.38	[cm³]
2.1 Bore	42.85	[mm]
2.2 Stroke	23.85	[mm]
3 Lubricant charge	750	[ml]
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	19.8	[kg]
5 Nitrogen charge	0.2 to 0.3	[bar]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Potential Relay	
2.1 Starting device	3ARR3B10AA3	
3 Start capacitor	72-88 (330)	[µF(VAC minimum)]
4 Run capacitor	17.5 (440)	[µF(VAC minimum)]
5 Motor protection (external)	T0335/C9	
6 Start winding resistance	8.7	[ohm at 25°C] +/- 8%
7 Run winding resistance	2.0	[ohm at 25°C] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	31.0	[A] - According to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - According to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - According to UL 984
11 Approval boards certification	IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz		EN12900 HBP Fan cooled		Evap. Temp +5°C Return Gas +20°C Cond. Temp +50°C Liquid Subcooling 0 K	
Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%
[W]		[W]	[A]	[kg/h]	[W/W]
2610		1153	5.60	65.41	2.26

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		EN12900 Fan cooled		Condensing temperature		35°C	
Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	[W]	[W]	[A]	[kg/h]	[W/W]		
-15	1434	697	3.68	30.31	2.06		
-10	1827	776	3.97	38.83	2.35		
-5	2269	851	4.26	48.47	2.67		
0	2773	927	4.56	59.57	2.99		
+5	3348	1009	4.86	72.48	3.32		
+10	4007	1101	5.17	87.54	3.64		

TEST CONDITIONS: @220V50Hz		EN12900 Fan cooled		Condensing temperature		45°C	
Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	[W]	[W]	[A]	[kg/h]	[W/W]		
-15	1144	720	3.72	26.51	1.59		
-10	1497	820	4.10	34.89	1.83		
-5	1892	916	4.48	44.34	2.07		
0	2340	1010	4.88	55.21	2.32		
+5	2852	1109	5.29	67.84	2.57		
+10	3438	1216	5.70	82.59	2.83		

TEST CONDITIONS: @220V50Hz		EN12900 Fan cooled		Condensing temperature		55°C	
Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	[W]	[W]	[A]	[kg/h]	[W/W]		
-15	868	708	3.76	22.37	1.23		
-10	1182	835	4.23	30.61	1.42		
-5	1531	955	4.71	39.88	1.60		
0	1923	1073	5.21	50.53	1.79		
+5	2371	1194	5.72	62.90	1.99		
+10	2886	1321	6.25	77.34	2.19		

1 Base plate	Large
2 Tray holder	No
3 Connectors	
3.1 SUCTION	9.6 +0.07/+0.00 [mm]
3.1.1 Material	Copper
3.1.2 Shape	Vertical
3.2 DISCHARGE	8.0 +0.07/+0.00 [mm]
3.2.1 Material	Copper
3.2.2 Shape	Slanted J
3.3 PROCESS	9.6 +0.07/+0.00 [mm]
3.3.1 Material	Copper
3.3.2 Shape	Vertical
3.4 Oil cooler	No
3.5 Connector sealing	Rubber Plugs