

COMPRESSOR DEFINITION

Designation	NJ9226GK
Nominal Voltage/Frequency	230 V 50 Hz
Engineering Number	944LV01



A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R404A		
3 Nominal voltage and frequency	230 / 50	[V / Hz]	
4 Application type	Medium Back Pressure		
4.1 Evaporating temperature range	-20°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)	24.7	[bar]	
9.2 Peak (gauge)	27.7	[bar]	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1+	[hp]
2 Displacement	21.7	[cm³]
2.1 Bore	38.087	[mm]
2.2 Stroke	19.07	[mm]
3 Lubricant charge	750	[ml]
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	20.8	[kg]
5 Nitrogen charge	0.2 to 0.3	[bar]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	230 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B6AA3	
3 Start capacitor	88-108 (330)	[µF(VAC minimum)]
4 Run capacitor	20 (440)	[µF(VAC minimum)]
5 Motor protection (external)	T0736	
6 Start winding resistance	7.8	[ohm at 25°C] +/- 8%
7 Run winding resistance	2.12	[ohm at 25°C] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	27.5	[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: @230V50Hz		EN12900 MBP Fan cooled		Evap. Temp -10°C Return Gas +20°C Cond. Temp +45°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]		
1648		970	4.44	49.50	1.70		

E - PERFORMANCE - CURVES

TEST CONDITIONS: @230V50Hz		EN12900 Fan cooled		Condensing temperature 35°C			
Evaporating temperature °C	Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%	
	[W]	[W]	[A]	[kg/h]	[W/W]		
-20	1240	760	3.55	32.17	1.63		
-15	1590	836	3.85	41.54	1.90		
-10	2014	909	4.17	53.07	2.22		
-5	2508	979	4.48	66.81	2.56		
0	3069	1046	4.78	82.80	2.93		
+5	3694	1110	5.03	101.08	3.33		
+10	4378	1170	5.23	121.68	3.74		

TEST CONDITIONS: @230V50Hz		EN12900 Fan cooled		Condensing temperature 45°C			
Evaporating temperature °C	Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%	
	[W]	[W]	[A]	[kg/h]	[W/W]		
-20	982	782	3.63	28.93	1.26		
-15	1285	878	4.03	38.22	1.46		
-10	1648	970	4.44	49.50	1.70		
-5	2066	1059	4.85	62.82	1.95		
0	2536	1145	5.23	78.20	2.21		
+5	3055	1227	5.57	95.69	2.49		
+10	3618	1304	5.86	115.33	2.77		

TEST CONDITIONS: @230V50Hz		EN12900 Fan cooled		Condensing temperature 55°C			
Evaporating temperature °C	Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%	
	[W]	[W]	[A]	[kg/h]	[W/W]		
-20	729	786	3.66	25.27	0.93		
-15	970	905	4.16	33.97	1.07		
-10	1255	1021	4.66	44.48	1.23		
-5	1581	1133	5.16	56.85	1.40		
0	1944	1240	5.63	71.11	1.57		
+5	2340	1344	6.07	87.30	1.74		
+10	2766	1443	6.44	105.47	1.92		

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	8.00 +0.07/+0.00 [mm]
3.2.1 Material	Copper
3.2.2 Shape	Slanted NJ
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