

COMPRESSOR DEFINITION

Designation	NT6226GK
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	923BA02



A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R404A		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Medium Back Pressure		
4.1 Evaporating temperature range	-25°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	22.4	[cm³]
2.1 Bore	37.0	[mm]
2.2 Stroke	20.83	[mm]
3 Lubricant charge	450	[ml]
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	17.5	[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	Voltage Relay	
2.1 Starting device	3ARR3B6AC3	
3 Start capacitor	130-156 (250)	[µF(VAC minimum)]
4 Run capacitor	20 (440)	[µF(VAC minimum)]
5 Motor protection (external)	T0829/G9	
6 Start winding resistance	8.4	[ohm at 25°C] +/- 8%
7 Run winding resistance	1.7	[ohm at 25°C] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	38.0	[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 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%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
5978	1506	1752	980	4.78	52.62	6.10	1.54	1.79

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz			EN12900 Fan cooled		Condensing temperature 35°C (+95°F)					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(-4)	4643	1170	1373	765	3.83	35.28	6.07	1.53	1.79
-15	(+5)	5822	1467	1712	831	4.12	44.58	7.01	1.77	2.06
-10	(+14)	7222	1820	2112	898	4.42	55.78	8.04	2.03	2.35
-5	(+23)	8845	2229	2577	966	4.72	69.05	9.16	2.31	2.67
0	(+32)	10690	2694	3116	1034	5.03	84.52	10.33	2.60	3.01
+5	(+41)	12745	3212	3735	1103	5.35	102.35	11.55	2.91	3.39
+10	(+50)	15158	3820	4442	1174	5.69	122.69	12.91	3.25	3.78

TEST CONDITIONS: @220V50Hz			EN12900 Fan cooled		Condensing temperature 45°C (+113°F)					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(-4)	3801	958	1137	821	4.08	32.83	4.63	1.17	1.36
-15	(+5)	4804	1211	1420	900	4.43	41.86	5.33	1.34	1.56
-10	(+14)	5990	1509	1753	979	4.78	52.72	6.11	1.54	1.79
-5	(+23)	7359	1855	2143	1058	5.13	65.56	6.95	1.75	2.04
0	(+32)	8912	2246	2597	1137	5.49	80.54	7.83	1.97	2.29
+5	(+41)	10654	2685	3122	1218	5.86	97.81	8.75	2.20	2.56
+10	(+50)	12705	3202	3724	1299	6.23	117.52	9.78	2.46	2.87

TEST CONDITIONS: @220V50Hz			EN12900 Fan cooled		Condensing temperature 55°C (+131°F)					
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	(-4)	3072	774	924	875	3.30	31.21	3.53	0.89	1.04
-15	(+5)	3890	980	1147	967	4.73	39.93	4.02	1.01	1.18
-10	(+14)	4852	1223	1412	1060	5.16	50.41	4.57	1.15	1.34
-5	(+23)	5959	1502	1724	1153	5.58	62.80	5.16	1.30	1.51
0	(+32)	7210	1817	2091	1246	6.01	77.26	5.57	1.45	1.69
+5	(+41)	8590	2165	2518	1339	6.40	94.15	6.42	1.62	1.88
+10	(+50)	10285	2592	3014	1433	6.84	113.23	7.18	1.81	2.10

1 Base plate	Universal
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	6.42 +0.08/+0.00 [mm]
3.2.1 Material	Copper
3.2.2 Shape	Vertical
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