

COMPRESSOR DEFINITION

Designation	NT 6226GKV
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	923AD08

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	208-230 / 60	[V / Hz]	
4 Application type	Medium Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-20°C to 10°C	(-4°F to 50°F)	
5 Motor type	CSCR		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	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 temperature			
9.1 Operating	25.2	[kgf/cm ²] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm ²] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1	[hp]
2 Displacement	22.37	[cm ³] (1.365 cu.in)
2.1 Bore [mm]	36.990	
2.2 Stroke [mm]	20.830	
3 Lubricant charge	450	[ml] (15.22 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	17.5	[kg] (38.58 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA3AN3C-647	
3 Start capacitor	72-88(330)	[μF(VAC minimum)]
4 Run capacitor	20(400)	[μF(VAC minimum)]
5 Motor protection	T0793/C9	
6 Start winding resistance	5.94	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.18	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @230V60Hz			ARIMBP Fan		Evaporating temperature (Condensing temperature		-6.7°C (19.94°F) 48.9°C (120.02°F)	
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]
6850	1726	2007	1360	6.72	73.82	5.04	1.27	1.48

E - PERFORMANCE - CURVES

TEST CONDITIONS: @230V60Hz		ARI4 Fan			(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)	5113	1288	1498	1028	5.11	38.64	4.96	1.25	1.45
-15	(+ 5)	6361	1603	1864	1130	5.58	60.65	5.63	1.42	1.65
-10	(+14)	7790	1963	2283	1233	6.08	75.32	6.32	1.59	1.85
-5	(+23)	9400	2369	2754	1337	6.59	78.98	7.03	1.77	2.06
0	(+32)	11187	2819	3278	1443	7.12	67.96	7.76	1.95	2.27
+5	(+41)	13151	3314	3854	1549	7.66	38.61	8.49	2.14	2.49
+10	(+50)	15290	3853	4480	1657	8.23	- 12.74	9.22	2.32	2.70

TEST CONDITIONS: @230V60Hz		ARI4 Fan			(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)	4142	1044	1214	1090	5.36	36.07	3.80	0.96	1.11
-15	(+ 5)	5212	1313	1527	1199	5.88	57.69	4.35	1.10	1.27
-10	(+14)	6442	1623	1888	1310	6.42	72.31	4.92	1.24	1.44
-5	(+23)	7830	1973	2294	1422	6.97	76.28	5.50	1.39	1.61
0	(+32)	9374	2362	2747	1536	7.55	65.93	6.10	1.54	1.79
+5	(+41)	11071	2790	3244	1652	8.14	37.60	6.70	1.69	1.96
+10	(+50)	12922	3256	3786	1770	8.75	- 12.38	7.30	1.84	2.14

TEST CONDITIONS: @230V60Hz		ARI4 Fan			(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)	3255	820	954	1125	5.54	33.73	2.90	0.73	0.85
-15	(+ 5)	4104	1034	1203	1252	6.15	54.92	3.28	0.83	0.96
-10	(+14)	5091	1283	1492	1381	6.79	69.48	3.68	0.93	1.08
-5	(+23)	6212	1566	1820	1513	7.44	73.74	4.10	1.03	1.20
0	(+32)	7468	1882	2188	1647	8.12	64.03	4.53	1.14	1.33
+5	(+41)	8856	2232	2595	1783	8.81	36.69	4.97	1.25	1.46
+10	(+50)	10373	2614	3040	1922	9.53	- 11.94	5.40	1.36	1.58

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal
2 Tray holder	No
3 Connectors	
3.1 SUCTION	12.7 +0.25/-0.25 [mm] (0.500" +0.010"/-0.010")
3.1.1 Material	Steel
3.1.2 Shape	ROTOLOCK(Ex. thr. 1"-14UNS-2A)
3.2 DISCHARGE	6.42 +0.08/+0.00 [mm] (0.253" +0.003"/+0.000")
3.2.1 Material	Copper
3.2.2 Shape	Vertical
3.3 PROCESS	6.42 +0.08/+0.00 [mm] (0.253" +0.003"/+0.000")
3.3.1 Material	Copper
3.3.2 Shape	Vertical
3.4 Oil cooler (Copper)	No [mm]
3.5 Connector sealing	Rubber Plugs