

COMPRESSOR DEFINITION

Designation	NT 6217GK
Nominal Voltage/Frequency	200-240 V 50 Hz / 230 V 60 Hz
Engineering Number	922AN04

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	200-240 / 50	[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 pressures/temperature			
9.1 Operating (gauge)	25.7	[kgf/cm ²] (365 psig)	/ °C - °F
9.2 Peak (gauge)	28.7	[kgf/cm ²] (408 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	3/4	[hp]
2 Displacement	12.55	[cm ³] (0.766 cu.in)
2.1 Bore [mm]	31.740	
2.2 Stroke [mm]	15.870	
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	[kg] (37.48 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm ²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	200-240 V 50 Hz / 230 V 60 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA3N3C-122	
3 Start capacitor	72-88(330)	[μF(VAC minimum)]
4 Run capacitor	17.5(440)	[μF(VAC minimum)]
5 Motor protection	T0817/G6	
6 Start winding resistance	12.70	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	2.70	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @200V50Hz			EN12900MBP Fan		Evaporating temperature (Condensing temperature		-10°C (14°F) 45°C (113°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]
3040	766	891	516	2.62	26.76	5.89	1.48	1.73

E - PERFORMANCE - CURVES

TEST CONDITIONS: @200V50Hz			EN12900 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)	2338	589	685	416	2.10	17.76	5.61	1.41	1.64
-15	(+ 5)	2982	751	874	449	2.26	22.83	6.64	1.67	1.95
-10	(+14)	3791	955	1111	483	2.43	29.29	7.86	1.98	2.30
-5	(+23)	4751	1197	1392	515	2.58	37.10	9.23	2.33	2.70
0	(+32)	5850	1474	1714	544	2.71	46.24	10.75	2.71	3.15
+5	(+41)	7074	1783	2073	565	2.78	56.70	12.38	3.12	3.63
+10	(+50)	8410	2119	2464	577	2.79	68.44	14.12	3.56	4.14

TEST CONDITIONS: @200V50Hz			EN12900 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)	1825	460	535	429	2.20	15.77	4.27	1.08	1.25
-15	(+ 5)	2358	594	691	471	2.40	20.54	5.00	1.26	1.46
-10	(+14)	3039	766	891	516	2.62	26.74	5.88	1.48	1.72
-5	(+23)	3857	972	1130	560	2.82	34.36	6.88	1.73	2.02
0	(+32)	4797	1209	1406	601	2.99	43.36	8.00	2.02	2.34
+5	(+41)	5847	1473	1713	635	3.12	53.73	9.20	2.32	2.70
+10	(+50)	6993	1762	2049	661	3.18	65.44	10.46	2.64	3.07

TEST CONDITIONS: @200V50Hz			EN12900 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)	1469	370	430	449	2.27	14.92	3.26	0.82	0.96
-15	(+ 5)	1849	466	542	500	2.52	18.99	3.71	0.93	1.09
-10	(+14)	2362	595	692	554	2.79	24.54	4.27	1.08	1.25
-5	(+23)	2996	755	878	609	3.05	31.57	4.92	1.24	1.44
0	(+32)	3736	941	1095	660	3.29	40.04	5.65	1.42	1.66
+5	(+41)	4570	1152	1339	707	3.47	49.93	6.44	1.62	1.89
+10	(+50)	5485	1382	1607	745	3.59	61.22	7.26	1.83	2.13

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	9.6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
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		