

COMPRESSOR DEFINITION

Designation	NT U6234GKV
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	925BA80

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 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 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 1/4	[hp]
2 Displacement	23.74	[cm ³] (1.449 cu.in)
2.1 Bore [mm]	38.100	
2.2 Stroke [mm]	20.830	
3 Lubricant charge	650	[ml] (21.98 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	18.1	[kg] (39.90 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	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B10AS3	
3 Start capacitor	88-108(330)	[µF(VAC minimum)]
4 Run capacitor	30(400)	[µF(VAC minimum)]
5 Motor protection	15HM1963-247	
6 Start winding resistance	3.95	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.47	[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 - VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			ASHRAEHBP46 Fan		Evaporating temperature (Condensing temperature		7.2°C (44.96°F) 54.4°C (129.92°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]	
13088	3298	3835	1367	6.61	107.75	9.57	2.41	2.80	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	6164	1553	1806	809	4.00	39.14	7.60	1.92	2.23
-15	(+ 5)	7546	1902	2211	866	4.28	48.19	8.70	2.19	2.55
-10	(+14)	9282	2339	2720	917	4.52	59.61	10.12	2.55	2.97
-5	(+23)	11372	2866	3332	961	4.72	73.55	11.84	2.98	3.47
0	(+32)	13817	3482	4049	999	4.89	90.15	13.86	3.49	4.06
+5	(+41)	16615	4187	4869	1029	5.01	109.57	16.17	4.07	4.74
+10	(+50)	19768	4982	5793	1053	5.09	131.96	18.75	4.72	5.49

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	5369	1353	1573	881	4.37	37.58	6.14	1.55	1.80
-15	(+ 5)	6569	1655	1925	953	4.70	46.31	6.91	1.74	2.02
-10	(+14)	8072	2034	2365	1020	5.01	57.29	7.89	1.99	2.31
-5	(+23)	9879	2489	2895	1083	5.30	70.68	9.08	2.29	2.66
0	(+32)	11989	3021	3513	1142	5.56	86.62	10.47	2.64	3.07
+5	(+41)	14403	3630	4220	1196	5.80	105.26	12.04	3.03	3.53
+10	(+50)	17120	4314	5017	1246	6.03	126.76	13.79	3.47	4.04

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	4566	1151	1338	947	4.61	35.90	4.79	1.21	1.40
-15	(+ 5)	5560	1401	1629	1033	4.99	44.03	5.39	1.36	1.58
-10	(+14)	6807	1715	1994	1118	5.36	54.31	6.11	1.54	1.79
-5	(+23)	8306	2093	2434	1201	5.73	66.88	6.93	1.75	2.03
0	(+32)	10057	2534	2947	1282	6.10	81.89	7.85	1.98	2.30
+5	(+41)	12062	3040	3534	1361	6.46	99.49	8.86	2.23	2.60
+10	(+50)	14319	3608	4196	1439	6.82	119.82	9.94	2.50	2.91

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	12.77 +0.08/+0.00	[mm]	(0.503" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted		
3.2 DISCHARGE	9.6 +0.07/+0.00	[mm]	(0.378" +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		