COMPRESSOR TECHNICAL DATA

Designation	**NT6215Z**
Nominal Voltage/Frequency	**200-240 V 50 Hz**
Engineering Number	**212AN06**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R134a		
3 Nominal voltage and frequency	200-240 / 50	[V / Hz]	
4 Application type	High Back Pressure		
4.1 Evaporating temperature range	-15°C to +10°C		
5 Motor type	CSIR		
6 Starting torque	HST - Hight 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 (32ºC Ambient temperature)	-	-	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	13.9	[bar]	
9.2 Peak (gauge)	15.8	[bar]	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1/2+	[hp]
2 Displacement	17.4	[cm³]
2.1 Bore	34.13	[mm]
2.2 Stroke	19.03	[mm]
3 Lubricant charge	450	[ml]
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	17.0	[kg]
5 Nitrogen charge	0.2 to 0.3	[bar]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	200-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRP46	
3 Start capacitor	64-77 (330)	[µf(VAC minimum)]
4 Run capacitor		[µf(VAC minimum)]
5 Motor protection (external)	T0540	
6 Start winding resistance	13.9	[ohm at 25ºC] +/- 8%
7 Run winding resistance	2.6	[ohm at 25ºC] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	21.0	[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: **@200V50Hz**	**EN12900 HBP** **Fan cooled**	Evap. Temp +5°C Return Gas +20°C Cond. Temp +50°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]	
1405		590	3.76	35.28	2.38	

E - PERFORMANCE - CURVES

TEST CONDITIONS: **EN12900** Condensing temperature **35ºC**
@200V50Hz **Fan cooled**

Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%
°C	[W]	[W]	[A]	[kg/h]	[W/W]
-15	729	355	2.77	15.43	2.05
-10	930	393	2.91	19.81	2.37
-5	1170	427	3.05	25.01	2.74
0	1456	458	3.17	31.10	3.18
+5	1796	487	3.30	38.91	3.69
+10	2199	514	3.42	48.10	4.27

TEST CONDITIONS: **EN12900** Condensing temperature **45ºC**
@200V50Hz **Fan cooled**

Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%
°C	[W]	[W]	[A]	[kg/h]	[W/W]
-15	627	380	2.85	14.56	1.65
-10	796	425	3.03	18.57	1.87
-5	998	469	3.21	23.41	2.13
0	1241	511	3.39	29.30	2.43
+5	1533	553	3.58	36.52	2.77
+10	1883	596	3.78	45.29	3.16

TEST CONDITIONS: **EN12900** Condensing temperature **55ºC**
@200V50Hz **Fan cooled**

Evaporating temperature	Cooling capacity +/- 5%	Power consumption +/- 5%	Current consumption +/- 5%	Gas Flow rate +/- 5%	Efficiency rate +/- 7%
°C	[W]	[W]	[A]	[kg/h]	[W/W]
-15	520	405	2.95	13.43	1.29
-10	661	459	3.16	17.12	1.44
-5	829	514	3.39	21.62	1.61
0	1033	569	3.63	27.18	1.82
+5	1282	625	3.89	34.03	2.05
+10	1582	684	4.17	42.43	2.31

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	Slanted 42	
3.2 DISCHARGE	6.42 +0.08/+0.00	[mm]
3.2.1 Material	Copper	
3.2.2 Shape	Straight	
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	