

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | NJ 6226Z |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 142HAO4 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|---|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-134a | | |
| 3 Nominal voltage and frequency | 220-240 / 50 | [V / Hz] | |
| 4 Application type | High Back Pressure (Commercial Compressors) | | |
| 4.1 Evaporating temperature range | -15°C to 10°C | (5°F to 50°F) | |
| 5 Motor type | CSCR | | |
| 6 Starting torque | HST - Hight 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 | 14.2 | [kgf/cm ²] (202 psig) | / °C - °F |
| 9.2 Peak | 15.9 | [kgf/cm ²] (226 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|---------------|--|
| 1 Commercial designation | 1 1/4 | [hp] |
| 2 Displacement | 34.38 | [cm ³] (2.098 cu.in) |
| 2.1 Bore [mm] | 42.850 | |
| 2.2 Stroke [mm] | 23.850 | |
| 3 Lubricant charge | 750 | [ml] (25.36 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ESTER / ISO22 | |
| 4 Weight (with oil charge) | 19.8 | [kg] (43.65 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 | 220-240 V 50 Hz 1 ~ (Single phase) | |
| 2 Starting device type | Voltage Relay | |
| 2.1 Starting device | RVA4M3C-109 | |
| 3 Start capacitor | 72-88(330) | [µF(VAC minimum)] |
| 4 Run capacitor | 17.5(440) | [µF(VAC minimum)] |
| 5 Motor protection | T0335/C9 | |
| 6 Start winding resistance | 8.70 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 2.00 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 31.00 | [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 - IRAM - VDE | |

D - PERFORMANCE - CHECK POINT DATA

| TEST CONDITIONS: @220V50Hz | | | EN12900HBP Fan | | Evaporating temperature (Condensing temperature | | 5°C (41°F) 50°C (122°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] |
| 8906 | 2244 | 2610 | 1153 | 5.60 | 65.51 | 7.72 | 1.95 | 2.26 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V50Hz | | 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] |
| -15 | (+ 5) | 4888 | 1232 | 1432 | 697 | 3.68 | 30.31 | 7.01 | 1.77 | 2.05 |
| -10 | (+14) | 6227 | 1569 | 1825 | 776 | 3.97 | 38.83 | 8.03 | 2.02 | 2.35 |
| -5 | (+23) | 7736 | 1950 | 2267 | 851 | 4.26 | 48.47 | 9.10 | 2.29 | 2.67 |
| 0 | (+32) | 9453 | 2382 | 2770 | 927 | 4.56 | 59.57 | 10.19 | 2.57 | 2.99 |
| +5 | (+41) | 11415 | 2877 | 3345 | 1009 | 4.86 | 72.48 | 11.30 | 2.85 | 3.31 |
| +10 | (+50) | 13659 | 3442 | 4002 | 1101 | 5.17 | 87.54 | 12.42 | 3.13 | 3.64 |

| TEST CONDITIONS: @220V50Hz | | 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] |
| -15 | (+ 5) | 3899 | 983 | 1142 | 720 | 3.72 | 26.51 | 5.41 | 1.36 | 1.59 |
| -10 | (+14) | 5104 | 1286 | 1496 | 820 | 4.10 | 34.89 | 6.22 | 1.57 | 1.82 |
| -5 | (+23) | 6451 | 1626 | 1890 | 916 | 4.48 | 44.34 | 7.05 | 1.78 | 2.07 |
| 0 | (+32) | 7978 | 2010 | 2338 | 1010 | 4.88 | 55.21 | 7.90 | 1.99 | 2.32 |
| +5 | (+41) | 9722 | 2450 | 2849 | 1109 | 5.29 | 67.84 | 8.77 | 2.21 | 2.57 |
| +10 | (+50) | 11721 | 2954 | 3434 | 1216 | 5.70 | 82.59 | 9.64 | 2.43 | 2.82 |

| TEST CONDITIONS: @220V50Hz | | 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] |
| -15 | (+ 5) | 2958 | 745 | 867 | 708 | 3.76 | 22.37 | 4.19 | 1.06 | 1.23 |
| -10 | (+14) | 4031 | 1016 | 1181 | 835 | 4.23 | 30.61 | 4.81 | 1.21 | 1.41 |
| -5 | (+23) | 5218 | 1315 | 1529 | 955 | 4.71 | 39.88 | 5.46 | 1.38 | 1.60 |
| 0 | (+32) | 6556 | 1652 | 1921 | 1073 | 5.21 | 50.53 | 6.12 | 1.54 | 1.79 |
| +5 | (+41) | 8084 | 2037 | 2369 | 1194 | 5.72 | 62.90 | 6.78 | 1.71 | 1.99 |
| +10 | (+50) | 9839 | 2479 | 2883 | 1321 | 6.25 | 77.34 | 7.44 | 1.88 | 2.18 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------|------|--------------------------|
| 1 Base plate | American Standard | | |
| 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 | 8 +0.07/+0.00 | [mm] | (0.315" +0.003"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted J | | |
| 3.3 PROCESS | 9.6 +0.07/+0.00 | [mm] | (0.378" +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 | | |