

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | NT 6226GK |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 923BA92 |

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 - 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 | 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) | 16.65 | [kg] (36.71 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 | RVA403C-123 | |
| 3 Start capacitor | 130-156(250) | [µF(VAC minimum)] |
| 4 Run capacitor | 20(400) | [µF(VAC minimum)] |
| 5 Motor protection | T0828/C9 | |
| 6 Start winding resistance | 7.56 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 2.22 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 37.00 | [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 - 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] |
| 11450 | 2885 | 3355 | 1376 | 6.60 | 94.26 | 8.32 | 2.10 | 2.44 |

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) | 5203 | 1311 | 1525 | 800 | 5.56 | 33.02 | 6.49 | 1.63 | 1.90 |
| -15 | (+ 5) | 6476 | 1632 | 1898 | 873 | 5.80 | 41.36 | 7.43 | 1.87 | 2.18 |
| -10 | (+14) | 8006 | 2018 | 2346 | 947 | 6.06 | 51.43 | 8.46 | 2.13 | 2.48 |
| -5 | (+23) | 9799 | 2469 | 2871 | 1024 | 6.35 | 63.39 | 9.58 | 2.41 | 2.81 |
| 0 | (+32) | 11858 | 2988 | 3475 | 1103 | 6.65 | 77.39 | 10.75 | 2.71 | 3.15 |
| +5 | (+41) | 14190 | 3576 | 4158 | 1184 | 6.98 | 93.58 | 11.98 | 3.02 | 3.51 |
| +10 | (+50) | 16799 | 4233 | 4923 | 1267 | 7.33 | 112.12 | 13.25 | 3.34 | 3.88 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|----------------------------------|----------------------------|---------------------------|-----------|-------|
| 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) | 4433 | 1117 | 1299 | 871 | 5.76 | 31.05 | 5.10 | 1.28 | 1.49 |
| -15 | (+ 5) | 5533 | 1394 | 1621 | 955 | 6.06 | 39.01 | 5.79 | 1.46 | 1.70 |
| -10 | (+14) | 6855 | 1727 | 2009 | 1043 | 6.39 | 48.65 | 6.56 | 1.65 | 1.92 |
| -5 | (+23) | 8403 | 2118 | 2462 | 1135 | 6.75 | 60.11 | 7.39 | 1.86 | 2.17 |
| 0 | (+32) | 10182 | 2566 | 2984 | 1230 | 7.15 | 73.56 | 8.27 | 2.08 | 2.42 |
| +5 | (+41) | 12199 | 3074 | 3574 | 1329 | 7.57 | 89.15 | 9.18 | 2.31 | 2.69 |
| +10 | (+50) | 14456 | 3643 | 4236 | 1431 | 8.02 | 107.03 | 10.11 | 2.55 | 2.96 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|----------------------------------|----------------------------|---------------------------|-----------|-------|
| 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) | 3752 | 945 | 1099 | 941 | 6.02 | 29.51 | 3.99 | 1.01 | 1.17 |
| -15 | (+ 5) | 4660 | 1174 | 1365 | 1040 | 6.38 | 36.89 | 4.48 | 1.13 | 1.31 |
| -10 | (+14) | 5753 | 1450 | 1686 | 1144 | 6.78 | 45.89 | 5.03 | 1.27 | 1.47 |
| -5 | (+23) | 7038 | 1774 | 2062 | 1253 | 7.22 | 56.66 | 5.62 | 1.42 | 1.65 |
| 0 | (+32) | 8518 | 2147 | 2496 | 1368 | 7.71 | 69.35 | 6.23 | 1.57 | 1.83 |
| +5 | (+41) | 10199 | 2570 | 2989 | 1487 | 8.23 | 84.13 | 6.86 | 1.73 | 2.01 |
| +10 | (+50) | 12086 | 3046 | 3542 | 1611 | 8.79 | 101.15 | 7.49 | 1.89 | 2.20 |

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 | | |