

COMPRESSOR DEFINITION

| | |
|---------------------------|------------------------|
| Designation | NT6217GK |
| Nominal Voltage/Frequency | 200-240 V 50 Hz |
| Engineering Number | 922AN04 |


A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|--|-----------------------------------|-------------------------|-------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R404A | | |
| 3 Nominal voltage and frequency | 200-240 / 50 | [V / Hz] | |
| 4 Application type | Medium Back Pressure | | |
| 4.1 Evaporating temperature range | -20°C to +10°C | | |
| 5 Motor type | CSR | | |
| 6 Starting torque | HST - High 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 (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) | 24.7 | [bar] | |
| 9.2 Peak (gauge) | 27.7 | [bar] | |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|---------------|-------|
| 1 Commercial designation | 3/4 | [hp] |
| 2 Displacement | 12.55 | [cm³] |
| 2.1 Bore | 31.75 | [mm] |
| 2.2 Stroke | 15.87 | [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 - ELETRICAL DATA

| | | |
|--|------------------------------------|---------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 200-240 V 50 Hz 1 ~ (Single phase) | |
| 2 Starting device type | Voltage Relay | |
| 2.1 Starting device | 3ARR3B10AB3 | |
| 3 Start capacitor | 72-88 (250) | [µF(VAC minimum)] |
| 4 Run capacitor | 17.5 (440) | [µF(VAC minimum)] |
| 5 Motor protection (external) | T0817/G9 | |
| 6 Start winding resistance | 12.7 | [ohm at 25°C] +/- 8% |
| 7 Run winding resistance | 2.7 | [ohm at 25°C] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 25.0 | [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 MBP Fan cooled | | Evap. Temp -10°C Return Gas +20°C Cond. Temp +45°C Liquid Subcooling 0 K | | | |
| 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] |
| 3039 | 766 | 891 | 516 | 2.10 | 17.76 | 5.90 | 1.49 | 1.73 |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|--------------------------------------|-------|----------------------------|-------------------------------------|------|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @200V50Hz | | | EN12900 Fan cooled | | 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 | 5.62 | 1.42 | 1.65 |
| -15 | (+5) | 2982 | 751 | 874 | 449 | 2.26 | 22.83 | 6.65 | 1.68 | 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 | 9.22 | 2.32 | 2.70 |
| 0 | (+32) | 5850 | 1474 | 1714 | 544 | 2.71 | 46.24 | 10.75 | 2.71 | 3.15 |
| +5 | (+41) | 7073 | 1782 | 2073 | 567 | 2.78 | 56.70 | 12.48 | 3.15 | 3.66 |
| +10 | (+50) | 8406 | 2118 | 2463 | 580 | 2.79 | 68.44 | 14.50 | 3.65 | 4.25 |

| | | | | | | | | | | |
|--------------------------------------|-------|----------------------------|-------------------------------------|------|---|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @200V50Hz | | | EN12900 Fan cooled | | 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 | 4.26 | 1.07 | 1.25 |
| -15 | (+5) | 2358 | 594 | 691 | 471 | 2.40 | 20.54 | 5.01 | 1.26 | 1.47 |
| -10 | (+14) | 3039 | 766 | 891 | 516 | 2.62 | 26.74 | 5.90 | 1.49 | 1.73 |
| -5 | (+23) | 3857 | 972 | 1130 | 560 | 2.82 | 34.36 | 6.89 | 1.74 | 2.02 |
| 0 | (+32) | 4797 | 1209 | 1406 | 601 | 2.99 | 43.36 | 7.99 | 2.01 | 2.34 |
| +5 | (+41) | 5845 | 1473 | 1713 | 636 | 3.12 | 53.73 | 9.20 | 2.32 | 2.69 |
| +10 | (+50) | 6988 | 1761 | 2048 | 662 | 3.18 | 65.44 | 10.56 | 2.66 | 3.09 |

| | | | | | | | | | | |
|--------------------------------------|-------|----------------------------|-------------------------------------|------|---|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @200V50Hz | | | EN12900 Fan cooled | | 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 | 3.27 | 0.82 | 0.96 |
| -15 | (+5) | 1849 | 466 | 542 | 500 | 2.52 | 18.99 | 3.70 | 0.93 | 1.08 |
| -10 | (+14) | 2362 | 595 | 692 | 554 | 2.79 | 24.54 | 4.26 | 1.07 | 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 | 5.66 | 1.43 | 1.66 |
| +5 | (+41) | 4568 | 1151 | 1339 | 707 | 3.47 | 49.93 | 6.46 | 1.63 | 1.89 |
| +10 | (+50) | 5480 | 1381 | 1606 | 745 | 3.59 | 61.22 | 7.35 | 1.85 | 2.15 |

| | |
|-----------------------|-----------------------|
| 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 | Vertical |
| 3.2 DISCHARGE | 6.42 +0.08/+0.00 [mm] |
| 3.2.1 Material | Copper |
| 3.2.2 Shape | Vertical |
| 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 |