

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | NT 2192GKV |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 923DA09 |

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 | Low Back Pressure R404A | | |
| 4.1 Evaporating temperature range | -40°C to -10°C | (-40°F to 14°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 1/4 | [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) | 17.5 | [kg] (38.58 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 | RVA3N3C-122 | |
| 3 Start capacitor | 130-156(250) | [µF(VAC minimum)] |
| 4 Run capacitor | 15(440) | [µF(VAC minimum)] |
| 5 Motor protection | MST26AHK-3261 | |
| 6 Start winding resistance | 8.40 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 1.90 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 35.00 | [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 | IMQ - IRAM | |

D - PERFORMANCE - CHECK POINT DATA

| TEST CONDITIONS: @220V50Hz | | | EN12900LBP Fan | | Evaporating temperature (Condensing temperature | | -35°C (-31°F) 40°C (104°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] |
| 1938 | 488 | 568 | 534 | 2.73 | 15.38 | 3.63 | 0.91 | 1.06 |

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] |
| -40 | (-40) | 1602 | 404 | 470 | 450 | 2.37 | 11.91 | 3.55 | 0.89 | 1.04 |
| -35 | (-31) | 2156 | 543 | 632 | 529 | 2.67 | 16.14 | 4.08 | 1.03 | 1.20 |
| -30 | (-22) | 2826 | 712 | 828 | 602 | 2.98 | 21.24 | 4.71 | 1.19 | 1.38 |
| -25 | (-13) | 3622 | 913 | 1061 | 672 | 3.28 | 27.35 | 5.39 | 1.36 | 1.58 |
| -20 | (- 4) | 4551 | 1147 | 1333 | 742 | 3.59 | 34.57 | 6.13 | 1.54 | 1.80 |
| -15 | (+ 5) | 5620 | 1416 | 1647 | 815 | 3.90 | 43.02 | 6.89 | 1.74 | 2.02 |
| -10 | (+14) | 6838 | 1723 | 2004 | 894 | 4.22 | 52.83 | 7.65 | 1.93 | 2.24 |

| 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] |
| -40 | (-40) | 1254 | 316 | 367 | 449 | 2.35 | 10.59 | 2.81 | 0.71 | 0.82 |
| -35 | (-31) | 1725 | 435 | 505 | 539 | 2.72 | 14.64 | 3.20 | 0.81 | 0.94 |
| -30 | (-22) | 2293 | 578 | 672 | 624 | 3.09 | 19.55 | 3.66 | 0.92 | 1.07 |
| -25 | (-13) | 2967 | 748 | 869 | 708 | 3.47 | 25.43 | 4.18 | 1.05 | 1.22 |
| -20 | (- 4) | 3754 | 946 | 1100 | 794 | 3.85 | 32.42 | 4.72 | 1.19 | 1.38 |
| -15 | (+ 5) | 4661 | 1175 | 1366 | 883 | 4.25 | 40.62 | 5.28 | 1.33 | 1.55 |
| -10 | (+14) | 5697 | 1436 | 1669 | 980 | 4.66 | 50.15 | 5.82 | 1.47 | 1.71 |

| 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] |
| -40 | (-40) | 949 | 239 | 278 | 432 | 2.31 | 9.40 | 2.20 | 0.55 | 0.64 |
| -35 | (-31) | 1328 | 335 | 389 | 539 | 2.73 | 13.20 | 2.46 | 0.62 | 0.72 |
| -30 | (-22) | 1784 | 450 | 523 | 642 | 3.17 | 17.83 | 2.78 | 0.70 | 0.81 |
| -25 | (-13) | 2326 | 586 | 682 | 744 | 3.61 | 23.43 | 3.13 | 0.79 | 0.92 |
| -20 | (- 4) | 2961 | 746 | 868 | 849 | 4.07 | 30.10 | 3.50 | 0.88 | 1.02 |
| -15 | (+ 5) | 3696 | 931 | 1083 | 960 | 4.55 | 37.97 | 3.86 | 0.97 | 1.13 |
| -10 | (+14) | 4540 | 1144 | 1330 | 1079 | 5.05 | 47.14 | 4.19 | 1.06 | 1.23 |

F - EXTERNAL CHARACTERISTICS

| | |
|-------------------------|--|
| 1 Base plate | Universal |
| 2 Tray holder | No |
| 3 Connectors | |
| 3.1 SUCTION | 12.7 +0.25/-0.25 [mm] (0.500" +0.010"/-0.010") |
| 3.1.1 Material | Steel |
| 3.1.2 Shape | ROTOLOCK(Ex. thr. 1"-14UNS-2A) |
| 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 |