

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | NT U6240GKV |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 925FA60 |

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 1/2 | [hp] |
| 2 Displacement | 27.80 | [cm ³] (1.696 cu.in) |
| 2.1 Bore [mm] | 38.100 | |
| 2.2 Stroke [mm] | 24.400 | |
| 3 Lubricant charge | 650 | [ml] (21.98 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ESTER / ISO22 | |
| 4 Weight (with oil charge) | 18.3 | [kg] (40.34 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 | 3ARR3B10AS3 | |
| 3 Start capacitor | 88-108(330) | [µF(VAC minimum)] |
| 4 Run capacitor | 30(440) | [µF(VAC minimum)] |
| 5 Motor protection | 15HM1963-247 | |
| 6 Start winding resistance | 3.75 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 1.54 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | - | [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] |
| 15215 | 3834 | 4458 | 1676 | 7.98 | 125.26 | 9.08 | 2.29 | 2.66 |

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) | 7198 | 1814 | 2109 | 970 | 4.69 | 45.68 | 7.41 | 1.87 | 2.17 |
| -15 | (+ 5) | 8845 | 2229 | 2592 | 1043 | 5.01 | 56.48 | 8.48 | 2.14 | 2.48 |
| -10 | (+14) | 10886 | 2743 | 3190 | 1110 | 5.32 | 69.93 | 9.81 | 2.47 | 2.87 |
| -5 | (+23) | 13323 | 3357 | 3904 | 1172 | 5.62 | 86.18 | 11.38 | 2.87 | 3.33 |
| 0 | (+32) | 16154 | 4071 | 4733 | 1227 | 5.88 | 105.42 | 13.18 | 3.32 | 3.86 |
| +5 | (+41) | 19379 | 4884 | 5678 | 1277 | 6.11 | 127.80 | 15.19 | 3.83 | 4.45 |
| +10 | (+50) | 22999 | 5796 | 6739 | 1321 | 6.29 | 153.50 | 17.39 | 4.38 | 5.10 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| 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) | 6227 | 1569 | 1825 | 1058 | 5.21 | 43.62 | 5.92 | 1.49 | 1.73 |
| -15 | (+ 5) | 7612 | 1918 | 2230 | 1144 | 5.53 | 53.67 | 6.66 | 1.68 | 1.95 |
| -10 | (+14) | 9341 | 2354 | 2737 | 1228 | 5.88 | 66.29 | 7.59 | 1.91 | 2.22 |
| -5 | (+23) | 11414 | 2876 | 3345 | 1310 | 6.24 | 81.65 | 8.68 | 2.19 | 2.54 |
| 0 | (+32) | 13831 | 3486 | 4053 | 1390 | 6.61 | 99.92 | 9.93 | 2.50 | 2.91 |
| +5 | (+41) | 16593 | 4181 | 4862 | 1467 | 6.98 | 121.26 | 11.31 | 2.85 | 3.31 |
| +10 | (+50) | 19698 | 4964 | 5772 | 1543 | 7.34 | 145.85 | 12.80 | 3.23 | 3.75 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| 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) | 5317 | 1340 | 1558 | 1138 | 5.67 | 41.81 | 4.65 | 1.17 | 1.36 |
| -15 | (+ 5) | 6443 | 1624 | 1888 | 1241 | 6.01 | 51.02 | 5.20 | 1.31 | 1.52 |
| -10 | (+14) | 7863 | 1982 | 2304 | 1346 | 6.41 | 62.73 | 5.85 | 1.48 | 1.72 |
| -5 | (+23) | 9578 | 2414 | 2807 | 1453 | 6.86 | 77.11 | 6.60 | 1.66 | 1.93 |
| 0 | (+32) | 11586 | 2920 | 3395 | 1562 | 7.35 | 94.33 | 7.42 | 1.87 | 2.18 |
| +5 | (+41) | 13887 | 3500 | 4069 | 1672 | 7.88 | 114.55 | 8.30 | 2.09 | 2.43 |
| +10 | (+50) | 16483 | 4154 | 4830 | 1784 | 8.43 | 137.94 | 9.23 | 2.33 | 2.70 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------|------|--------------------------|
| 1 Base plate | Universal | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 12.77 +0.08/+0.00 | [mm] | (0.503" +0.003"/+0.000") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted | | |
| 3.2 DISCHARGE | 9.6 +0.07/+0.00 | [mm] | (0.378" +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 | | |