

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|-------------------------------|
| Denominación | NT 6220Z |
| Voltage / Frecuencia nominal | 200-240 V 50 Hz / 230 V 60 Hz |
| Código de Ingeniería | 212CN04 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

| | | | |
|---|-------------------------------------|-----------------------------------|-----------|
| 1 Tipo | Compresor recíproco | | |
| 2 Refrigerante | R-134a | | |
| 3 Voltaje y frecuencia nominal | 200-240 / 50 | [V / Hz] | |
| 4 Tipo de aplicación | | | |
| 4.1 Rango de temperatura de evaporación | -15°C para 10°C | (5°F para 50°F) | |
| 5 Tipo de motor | CSIR | | |
| 6 Torque de Arranque | HST - Alto torque de arranque | | |
| 7 Elemento de control | Tubo capilar o Válvula de expansión | | |
| 8 Enfriamiento del compresor | Rango de voltaje de operación | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Temperatura ambiente) | - | - | - |
| 8.2 LBP (43°C Temperatura ambiente) | - | - | - |
| 8.3 HBP (32°C Temperatura ambiente) | - | - | - |
| 8.4 HBP (43°C Temperatura ambiente) | - | - | - |
| 9 Máxima temperatura de condensación | | | |
| 9.1 Operación | 14.2 | [kgf/cm ²] (202 psig) | / °C - °F |
| 9.2 Pico | 15.9 | [kgf/cm ²] (226 psig) | / °C - °F |
| 10 Máxima temperatura de las bobinas | 130 | [°C] | |

B - DATOS MECÁNICOS

| | | |
|--------------------------------|---------------|--|
| 1 Referencia Comercial | 1 | [hp] |
| 2 Desplazamiento | 22.37 | [cm ³] (1.365 cu.in) |
| 2.1 Diametro [mm] | 36.990 | |
| 2.2 Curso [mm] | 20.830 | |
| 3 Carga de aceite | 450 | [ml] (15.22 fl.oz.) |
| 3.1 Aceites aprobados | | |
| 3.2 Tipo/Viscosidad del aceite | ESTER / ISO22 | |
| 4 Peso (com carga de aceite) | 17.2 | [kg] (37.92 lb.) |
| 5 Carga de nitrógeno | 0.2 para 0.3 | [kgf/cm ²] (2.84 para 4.27 psig) |

C - DATOS ELÉCTRICOS

| | | |
|---|--|---------------------------|
| 1 Voltaje nominal/Frecuencia/Numero de fases | 200-240 V 50 Hz / 230 V 60 Hz 1 ~ (Monofásico) | |
| 2 Tipo de Dispositivo de Arranque | Current Relay | |
| 2.1 Dispositivo de Arranque | MTRPH-55 | |
| 3 Capacitor de Arranque | 88-108(330) | [μF(VAC minimo)] |
| 4 Capacitor de marcha | - | [μF(VAC minimo)] |
| 5 Protección del motor | T0901/G6 | |
| 6 Resistencia del motor - bobina arranque | 12.16 | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha | 1.86 | [Ω en 25°C (77°F)] +/- 8% |
| 8 LRA - Corriente com rotor trabado (50 Hz) | - | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (50 Hz) | - | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (50 Hz) | - | [A] - Medido según UL 984 |
| 11 Institutos de aprobación | CCC - IMQ | |

D - PERFORMANCE - DATOS CHECK POINT

| | | | | | | | | |
|--------------------------------------|----------|------|--------------------------------------|--------------------------------|--|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @230V60Hz | | | ASHRAEHBP46 Forzada | | Temperatura de evaporación 7.2°C (44.96°F) (Temp. de condensación 54.4°C (129.92°F)) | | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 8121 | 2047 | 2380 | 1073 | 5.61 | 52.66 | 7.57 | 1.91 | 2.22 |

E - PERFORMANCE - CURVAS

| | | | | | | | | | | |
|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|--|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @230V50Hz | | | ASHRAE46 Forzada | | (Temp. de condensación 35°C (+95°F)) | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -15 | (+5) | 3460 | 872 | 1014 | 455 | 3.55 | 18.71 | 7.61 | 1.92 | 2.23 |
| -10 | (+14) | 4344 | 1095 | 1273 | 506 | 3.73 | 23.58 | 8.59 | 2.16 | 2.52 |
| -5 | (+23) | 5434 | 1369 | 1592 | 559 | 3.93 | 29.60 | 9.72 | 2.45 | 2.85 |
| 0 | (+32) | 6733 | 1697 | 1973 | 615 | 4.16 | 36.84 | 10.95 | 2.76 | 3.21 |
| +5 | (+41) | 8241 | 2077 | 2415 | 674 | 4.41 | 45.33 | 12.23 | 3.08 | 3.58 |
| +10 | (+50) | 9960 | 2510 | 2919 | 736 | 4.70 | 55.14 | 13.54 | 3.41 | 3.97 |

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|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @230V50Hz | | | ASHRAE46 Forzada | | (Temp. de condensación 45°C (+113°F)) | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -15 | (+5) | 3061 | 771 | 897 | 491 | 3.67 | 17.89 | 6.25 | 1.57 | 1.83 |
| -10 | (+14) | 3794 | 956 | 1112 | 549 | 3.89 | 22.25 | 6.91 | 1.74 | 2.03 |
| -5 | (+23) | 4730 | 1192 | 1386 | 611 | 4.14 | 27.84 | 7.73 | 1.95 | 2.27 |
| 0 | (+32) | 5872 | 1480 | 1721 | 677 | 4.41 | 34.73 | 8.67 | 2.18 | 2.54 |
| +5 | (+41) | 7220 | 1820 | 2116 | 747 | 4.72 | 42.97 | 9.66 | 2.44 | 2.83 |
| +10 | (+50) | 8777 | 2212 | 2572 | 822 | 5.07 | 52.61 | 10.68 | 2.69 | 3.13 |

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|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @230V50Hz | | | ASHRAE46 Forzada | | (Temp. de condensación 55°C (+131°F)) | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -15 | (+5) | 2786 | 702 | 816 | 523 | 3.79 | 17.74 | 5.32 | 1.34 | 1.56 |
| -10 | (+14) | 3360 | 847 | 984 | 590 | 4.05 | 21.49 | 5.70 | 1.44 | 1.67 |
| -5 | (+23) | 4134 | 1042 | 1211 | 663 | 4.35 | 26.56 | 6.24 | 1.57 | 1.83 |
| 0 | (+32) | 5110 | 1288 | 1497 | 740 | 4.69 | 33.01 | 6.90 | 1.74 | 2.02 |
| +5 | (+41) | 6290 | 1585 | 1843 | 824 | 5.06 | 40.89 | 7.64 | 1.92 | 2.24 |
| +10 | (+50) | 7675 | 1934 | 2249 | 913 | 5.47 | 50.26 | 8.40 | 2.12 | 2.46 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|--------------------------------------|---------------|---------------------|-----------|-------|--|
| @230V60Hz | | Forzada | | | | | | | | |
| Temperatura de evaporación | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -15 (+5) | 4201 | 1059 | 1231 | 568 | 3.63 | 22.72 | 7.40 | 1.86 | 2.17 | |
| -10 (+14) | 5059 | 1275 | 1482 | 643 | 3.89 | 27.45 | 7.89 | 1.99 | 2.31 | |
| -5 (+23) | 6202 | 1563 | 1817 | 719 | 4.17 | 33.78 | 8.63 | 2.17 | 2.53 | |
| 0 (+32) | 7632 | 1923 | 2236 | 795 | 4.46 | 41.76 | 9.58 | 2.41 | 2.81 | |
| +5 (+41) | 9348 | 2356 | 2739 | 872 | 4.77 | 51.43 | 10.70 | 2.70 | 3.14 | |
| +10 (+50) | 11349 | 2860 | 3325 | 949 | 5.08 | 62.84 | 11.98 | 3.02 | 3.51 | |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @230V60Hz | | Forzada | | | | | | | | |
| Temperatura de evaporación | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -15 (+5) | 3696 | 931 | 1083 | 597 | 3.71 | 21.56 | 6.18 | 1.56 | 1.81 | |
| -10 (+14) | 4582 | 1155 | 1343 | 681 | 4.01 | 26.88 | 6.72 | 1.69 | 1.97 | |
| -5 (+23) | 5670 | 1429 | 1662 | 767 | 4.34 | 33.41 | 7.38 | 1.86 | 2.16 | |
| 0 (+32) | 6960 | 1754 | 2039 | 856 | 4.68 | 41.20 | 8.13 | 2.05 | 2.38 | |
| +5 (+41) | 8450 | 2129 | 2476 | 946 | 5.05 | 50.30 | 8.94 | 2.25 | 2.62 | |
| +10 (+50) | 10142 | 2556 | 2972 | 1038 | 5.44 | 60.74 | 9.79 | 2.47 | 2.87 | |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @230V60Hz | | Forzada | | | | | | | | |
| Temperatura de evaporación | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -15 (+5) | 3072 | 774 | 900 | 627 | 3.82 | 19.60 | 4.91 | 1.24 | 1.44 | |
| -10 (+14) | 4007 | 1010 | 1174 | 722 | 4.17 | 25.62 | 5.54 | 1.40 | 1.62 | |
| -5 (+23) | 5059 | 1275 | 1483 | 820 | 4.55 | 32.48 | 6.17 | 1.56 | 1.81 | |
| 0 (+32) | 6228 | 1570 | 1825 | 922 | 4.96 | 40.20 | 6.78 | 1.71 | 1.99 | |
| +5 (+41) | 7514 | 1894 | 2202 | 1027 | 5.40 | 48.84 | 7.34 | 1.85 | 2.15 | |
| +10 (+50) | 8917 | 2247 | 2613 | 1135 | 5.86 | 58.44 | 7.82 | 1.97 | 2.29 | |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|------------------|------|--------------------------|
| 1 Placa base | Universal | | |
| 2 Soporte de badeja | No | | |
| 3 Tubos | | | |
| 3.1 SUCCIÓN | 9.6 +0.07/+0.00 | [mm] | (0.378" +0.003"/+0.000") |
| 3.1.1 Material | Cobre | | |
| 3.1.2 Forma | Vertical | | |
| 3.2 DESCARGA | 6.42 +0.08/+0.00 | [mm] | (0.253" +0.003"/+0.000") |
| 3.2.1 Material | Cobre | | |
| 3.2.2 Forma | Vertical | | |
| 3.3 PROCESO | 6.42 +0.08/+0.00 | [mm] | (0.253" +0.003"/+0.000") |
| 3.3.1 Material | Cobre | | |
| 3.3.2 Forma | Vertical | | |
| 3.4 Tubo enfriador de aceite (Cobre) | No | [mm] | |
| 3.5 Sellado del tudo | Tampa de Gomma | | |