

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|-----------------------------------|
| Denominación | NJ 9238P |
| Voltage / Frecuencia nominal | 380-420 V 50 Hz / 440-480 V 60 Hz |
| Código de Ingeniería | 147LM11 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

| | | | |
|---|-------------------------------------|-----------------------------------|-----------|
| 1 Tipo | Compresor recíproco | | |
| 2 Refrigerante | R-22 | | |
| 3 Voltaje y frecuencia nominal | 380-420 / 50 | [V / Hz] | |
| 4 Tipo de aplicación | | | |
| 4.1 Rango de temperatura de evaporación | -20°C para 10°C | (-4°F para 50°F) | |
| 5 Tipo de motor | 3PHASE | | |
| 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 | 21.7 | [kgf/cm ²] (309 psig) | / °C - °F |
| 9.2 Pico | 24.2 | [kgf/cm ²] (344 psig) | / °C - °F |
| 10 Máxima temperatura de las bobinas | 130 | [°C] | |

B - DATOS MECÁNICOS

| | | |
|--------------------------------|-----------------|--|
| 1 Referencia Comercial | 1 1/2 | [hp] |
| 2 Desplazamiento | 32.67 | [cm ³] (1.994 cu.in) |
| 2.1 Diametro [mm] | 41.770 | |
| 2.2 Curso [mm] | 23.850 | |
| 3 Carga de aceite | 750 | [ml] (25.36 fl.oz.) |
| 3.1 Aceites aprobados | | |
| 3.2 Tipo/Viscosidad del aceite | ALQUILB / ISO46 | |
| 4 Peso (com carga de aceite) | 21.5 | [kg] (47.40 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 | 380-420 V 50 Hz / 440-480 V 60 Hz 3 ~ (Trifásico) | |
| 2 Tipo de Dispositivo de Arranque | 3PHASE | |
| 2.1 Dispositivo de Arranque | | |
| 3 Capacitor de Arranque | - | [µF(VAC minimo)] |
| 4 Capacitor de marcha | - | [µF(VAC minimo)] |
| 5 Protección del motor | 34HM260 | |
| 6 Resistencia del motor - bobina arranque | | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha | 8.40 | [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 | | |

D - PERFORMANCE - DATOS CHECK POINT

| | | | | | | | | |
|--|----------|------|--------------------------------------|--------------------------------|--|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @380V50Hz | | | 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] |
| 15278 | 3850 | 4477 | 1856 | 4.00 | 94.36 | 8.23 | 2.07 | 2.41 |

E - PERFORMANCE - CURVAS

| | | | | | | | | | | |
|--|-------|--------------------------------------|-----------------------------------|------|--|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @380V50Hz | | | 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] |
| -20 | (- 4) | 5757 | 1451 | 1687 | 1016 | 2.44 | 30.13 | 5.65 | 1.42 | 1.66 |
| -15 | (+ 5) | 7325 | 1846 | 2147 | 1119 | 2.66 | 38.47 | 6.55 | 1.65 | 1.92 |
| -10 | (+14) | 9293 | 2342 | 2723 | 1214 | 2.87 | 48.99 | 7.66 | 1.93 | 2.24 |
| -5 | (+23) | 11661 | 2938 | 3417 | 1300 | 3.08 | 61.76 | 8.97 | 2.26 | 2.63 |
| 0 | (+32) | 14428 | 3636 | 4228 | 1379 | 3.29 | 76.85 | 10.47 | 2.64 | 3.07 |
| +5 | (+41) | 17594 | 4434 | 5156 | 1449 | 3.50 | 94.36 | 12.15 | 3.06 | 3.56 |
| +10 | (+50) | 21161 | 5333 | 6201 | 1510 | 3.72 | 114.35 | 14.00 | 3.53 | 4.10 |

| | | | | | | | | | | |
|--|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @380V50Hz | | | 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] |
| -20 | (- 4) | 5274 | 1329 | 1545 | 1054 | 2.49 | 29.44 | 5.02 | 1.27 | 1.47 |
| -15 | (+ 5) | 6730 | 1696 | 1972 | 1181 | 2.75 | 37.76 | 5.71 | 1.44 | 1.67 |
| -10 | (+14) | 8521 | 2147 | 2497 | 1301 | 3.01 | 48.01 | 6.54 | 1.65 | 1.92 |
| -5 | (+23) | 10646 | 2683 | 3119 | 1415 | 3.26 | 60.29 | 7.50 | 1.89 | 2.20 |
| 0 | (+32) | 13105 | 3302 | 3840 | 1521 | 3.50 | 74.66 | 8.60 | 2.17 | 2.52 |
| +5 | (+41) | 15899 | 4007 | 4659 | 1621 | 3.74 | 91.20 | 9.81 | 2.47 | 2.87 |
| +10 | (+50) | 19027 | 4795 | 5575 | 1713 | 3.99 | 110.00 | 11.13 | 2.80 | 3.26 |

| | | | | | | | | | | |
|--|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @380V50Hz | | | 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] |
| -20 | (- 4) | 4778 | 1204 | 1400 | 1093 | 2.59 | 28.73 | 4.36 | 1.10 | 1.28 |
| -15 | (+ 5) | 6111 | 1540 | 1791 | 1245 | 2.89 | 36.89 | 4.91 | 1.24 | 1.44 |
| -10 | (+14) | 7713 | 1944 | 2260 | 1392 | 3.18 | 46.76 | 5.55 | 1.40 | 1.63 |
| -5 | (+23) | 9584 | 2415 | 2808 | 1534 | 3.45 | 58.41 | 6.25 | 1.58 | 1.83 |
| 0 | (+32) | 11724 | 2954 | 3435 | 1670 | 3.72 | 71.93 | 7.03 | 1.77 | 2.06 |
| +5 | (+41) | 14133 | 3562 | 4141 | 1800 | 3.98 | 87.39 | 7.85 | 1.98 | 2.30 |
| +10 | (+50) | 16812 | 4237 | 4926 | 1925 | 4.23 | 104.87 | 8.72 | 2.20 | 2.56 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @380V60Hz | | 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] |
| -20 | (- 4) | 6735 | 1697 | 1974 | 1223 | 2.49 | 35.25 | 5.49 | 1.38 | 1.61 |
| -15 | (+ 5) | 8570 | 2160 | 2511 | 1336 | 2.71 | 45.01 | 6.42 | 1.62 | 1.88 |
| -10 | (+14) | 10873 | 2740 | 3186 | 1440 | 2.92 | 57.32 | 7.56 | 1.90 | 2.21 |
| -5 | (+23) | 13643 | 3438 | 3998 | 1535 | 3.14 | 72.25 | 8.89 | 2.24 | 2.61 |
| 0 | (+32) | 16881 | 4254 | 4946 | 1622 | 3.36 | 89.92 | 10.41 | 2.62 | 3.05 |
| +5 | (+41) | 20586 | 5188 | 6032 | 1700 | 3.58 | 110.40 | 12.11 | 3.05 | 3.55 |
| +10 | (+50) | 24758 | 6239 | 7255 | 1769 | 3.80 | 133.79 | 13.98 | 3.52 | 4.10 |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @380V60Hz | | 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] |
| -20 | (- 4) | 6171 | 1555 | 1808 | 1274 | 2.57 | 34.44 | 4.86 | 1.23 | 1.42 |
| -15 | (+ 5) | 7875 | 1984 | 2307 | 1413 | 2.83 | 44.17 | 5.58 | 1.41 | 1.63 |
| -10 | (+14) | 9970 | 2512 | 2921 | 1546 | 3.08 | 56.18 | 6.44 | 1.62 | 1.89 |
| -5 | (+23) | 12456 | 3139 | 3650 | 1671 | 3.33 | 70.54 | 7.43 | 1.87 | 2.18 |
| 0 | (+32) | 15334 | 3864 | 4493 | 1789 | 3.57 | 87.35 | 8.55 | 2.16 | 2.51 |
| +5 | (+41) | 18602 | 4688 | 5451 | 1900 | 3.82 | 106.71 | 9.79 | 2.47 | 2.87 |
| +10 | (+50) | 22262 | 5610 | 6523 | 2004 | 4.06 | 128.71 | 11.13 | 2.80 | 3.26 |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @380V60Hz | | 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] |
| -20 | (- 4) | 5590 | 1409 | 1638 | 1326 | 2.65 | 33.61 | 4.20 | 1.06 | 1.23 |
| -15 | (+ 5) | 7150 | 1802 | 2095 | 1494 | 2.95 | 43.16 | 4.79 | 1.21 | 1.40 |
| -10 | (+14) | 9024 | 2274 | 2644 | 1656 | 3.24 | 54.71 | 5.45 | 1.37 | 1.60 |
| -5 | (+23) | 11213 | 2826 | 3286 | 1813 | 3.52 | 68.34 | 6.19 | 1.56 | 1.81 |
| 0 | (+32) | 13717 | 3457 | 4019 | 1964 | 3.79 | 84.16 | 6.99 | 1.76 | 2.05 |
| +5 | (+41) | 16536 | 4167 | 4845 | 2109 | 4.06 | 102.24 | 7.84 | 1.98 | 2.30 |
| +10 | (+50) | 19669 | 4957 | 5764 | 2249 | 4.32 | 122.69 | 8.73 | 2.20 | 2.56 |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|-------------------|------|--------------------------|
| 1 Placa base | Grande | | |
| 2 Soporte de badeja | No | | |
| 3 Tubos | | | |
| 3.1 SUCCIÓN | 12.77 +0.08/+0.00 | [mm] | (0.503" +0.003"/+0.000") |
| 3.1.1 Material | Cobre | | |
| 3.1.2 Forma | Vertical | | |
| 3.2 DESCARGA | 8 +0.07/+0.00 | [mm] | (0.315" +0.003"/+0.000") |
| 3.2.1 Material | Cobre | | |
| 3.2.2 Forma | Curvo J | | |
| 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 | | |