

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|--------------------|
| Denominación | J 6220Z |
| Voltage / Frecuencia nominal | 115 V 60 Hz |
| Código de Ingeniería | 164HG01 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

| | | | |
|--|-------------------------------------|-----------------------------------|-----------|
| 1 Tipo | Compresor recíproco | | |
| 2 Refrigerante | R-134a | | |
| 3 Voltaje y frecuencia nominal | 115 / 60 | [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 presión/temperatura de condensación | | | |
| 9.1 Operación (gauge) | 16.2 | [kgf/cm ²] (230 psig) | / °C - °F |
| 9.2 Pico (gauge) | 20.6 | [kgf/cm ²] (293 psig) | / °C - °F |
| 10 Máxima temperatura de las bobinas | 130 | [°C] | |

B - DATOS MECÁNICOS

| | | |
|--------------------------------|---------------|--|
| 1 Referencia Comercial | 1 | [hp] |
| 2 Desplazamiento | 26.11 | [cm ³] (1.593 cu.in) |
| 2.1 Diametro [mm] | 41.770 | |
| 2.2 Curso [mm] | 19.066 | |
| 3 Carga de aceite | 890 | [ml] (30.10 fl.oz.) |
| 3.1 Aceites aprobados | | |
| 3.2 Tipo/Viscosidad del aceite | ESTER / ISO22 | |
| 4 Peso (com carga de aceite) | 20.25 | [kg] (44.64 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 | 115 V 60 Hz 1~ (Monofásico) | |
| 2 Tipo de Dispositivo de Arranque | Voltage Relay | |
| 2.1 Dispositivo de Arranque | 3ARR3B2L3 | |
| 3 Capacitor de Arranque | 340-408(110) | [µF(VAC minimo)] |
| 4 Capacitor de marcha | - | [µF(VAC minimo)] |
| 5 Protección del motor | CRA39009-3031 | |
| 6 Resistencia del motor - bobina arranque | 3.06 | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha | 0.46 | [Ω en 25°C (77°F)] +/- 8% |
| 8 LRA - Corriente com rotor trabado (60 Hz) | 70.00 | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (60 Hz) | - | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (60 Hz) | 13.40 | [A] - Medido según UL 984 |
| 11 Institutos de aprobación | UL | |

D - PERFORMANCE - DATOS CHECK POINT

| | | | | | | | | | |
|--------------------------------------|----------|------|--------------------------------------|--------------------------------|--|-------------------------------|-----------|-------|--|
| CONDICIONES DE PRUEBA: @100V50Hz | | | 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] | |
| 8692 | 2190 | 2547 | 1070 | 13.08 | 56.36 | 8.12 | 2.05 | 2.38 | |

E - PERFORMANCE - CURVAS

| | | | | | | | | | | |
|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|--|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @100V50Hz | | | 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) | 3918 | 987 | 1148 | 605 | 10.14 | 21.22 | 6.45 | 1.62 | 1.89 |
| -10 | (+14) | 4851 | 1222 | 1421 | 670 | 10.44 | 26.32 | 7.27 | 1.83 | 2.13 |
| -5 | (+23) | 6149 | 1550 | 1802 | 730 | 10.75 | 33.47 | 8.44 | 2.13 | 2.47 |
| 0 | (+32) | 7814 | 1969 | 2290 | 786 | 11.07 | 42.73 | 9.94 | 2.50 | 2.91 |
| +5 | (+41) | 9844 | 2481 | 2885 | 837 | 11.41 | 54.16 | 11.75 | 2.96 | 3.44 |
| +10 | (+50) | 12240 | 3085 | 3587 | 883 | 11.77 | 67.79 | 13.86 | 3.49 | 4.06 |

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|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @100V50Hz | | | 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) | 3287 | 828 | 963 | 606 | 10.09 | 19.16 | 5.45 | 1.37 | 1.60 |
| -10 | (+14) | 4321 | 1089 | 1266 | 691 | 10.54 | 25.35 | 6.26 | 1.58 | 1.83 |
| -5 | (+23) | 5605 | 1412 | 1642 | 773 | 11.02 | 33.04 | 7.23 | 1.82 | 2.12 |
| 0 | (+32) | 7141 | 1799 | 2092 | 852 | 11.53 | 42.29 | 8.35 | 2.10 | 2.45 |
| +5 | (+41) | 8928 | 2250 | 2616 | 929 | 12.06 | 53.15 | 9.60 | 2.42 | 2.81 |
| +10 | (+50) | 10965 | 2763 | 3213 | 1003 | 12.63 | 65.66 | 10.96 | 2.76 | 3.21 |

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|-------------------------------------|-------|--------------------------------------|-----------------------------------|------|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA: @100V50Hz | | | 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) | 2638 | 665 | 773 | 607 | 10.05 | 16.83 | 4.35 | 1.10 | 1.28 |
| -10 | (+14) | 3767 | 949 | 1104 | 713 | 10.66 | 24.09 | 5.26 | 1.33 | 1.54 |
| -5 | (+23) | 5032 | 1268 | 1475 | 818 | 11.31 | 32.31 | 6.15 | 1.55 | 1.80 |
| 0 | (+32) | 6434 | 1621 | 1885 | 922 | 12.00 | 41.53 | 7.00 | 1.77 | 2.05 |
| +5 | (+41) | 7972 | 2009 | 2336 | 1025 | 12.74 | 51.81 | 7.80 | 1.97 | 2.29 |
| +10 | (+50) | 9646 | 2431 | 2827 | 1128 | 13.53 | 63.20 | 8.52 | 2.15 | 2.50 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|--------------------------------------|---------------|---------------------|-----------|-------|--|
| @100V60Hz | | 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) | 4584 | 1155 | 1343 | 724 | 10.35 | 24.82 | 6.31 | 1.59 | 1.85 | |
| -10 (+14) | 5676 | 1430 | 1663 | 796 | 10.65 | 30.79 | 7.15 | 1.80 | 2.10 | |
| -5 (+23) | 7195 | 1813 | 2108 | 863 | 10.97 | 39.16 | 8.35 | 2.10 | 2.45 | |
| 0 (+32) | 9142 | 2304 | 2679 | 925 | 11.30 | 50.00 | 9.88 | 2.49 | 2.90 | |
| +5 (+41) | 11517 | 2902 | 3375 | 981 | 11.64 | 63.36 | 11.73 | 2.96 | 3.44 | |
| +10 (+50) | 14321 | 3609 | 4196 | 1033 | 12.01 | 79.31 | 13.86 | 3.49 | 4.06 | |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @100V60Hz | | 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) | 3846 | 969 | 1127 | 729 | 10.30 | 22.41 | 5.30 | 1.33 | 1.55 | |
| -10 (+14) | 5055 | 1274 | 1481 | 824 | 10.76 | 29.66 | 6.14 | 1.55 | 1.80 | |
| -5 (+23) | 6558 | 1653 | 1922 | 915 | 11.25 | 38.66 | 7.15 | 1.80 | 2.09 | |
| 0 (+32) | 8355 | 2106 | 2448 | 1003 | 11.76 | 49.48 | 8.31 | 2.09 | 2.43 | |
| +5 (+41) | 10446 | 2632 | 3061 | 1088 | 12.31 | 62.18 | 9.59 | 2.42 | 2.81 | |
| +10 (+50) | 12830 | 3233 | 3759 | 1170 | 12.89 | 76.83 | 10.99 | 2.77 | 3.22 | |

| CONDICIONES DE PRUEBA: | | ASHRAE46 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|------|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @100V60Hz | | 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) | 3087 | 778 | 904 | 734 | 10.25 | 19.69 | 4.21 | 1.06 | 1.23 | |
| -10 (+14) | 4407 | 1111 | 1291 | 852 | 10.87 | 28.19 | 5.15 | 1.30 | 1.51 | |
| -5 (+23) | 5888 | 1484 | 1725 | 969 | 11.54 | 37.81 | 6.08 | 1.53 | 1.78 | |
| 0 (+32) | 7528 | 1897 | 2206 | 1084 | 12.25 | 48.60 | 6.97 | 1.76 | 2.04 | |
| +5 (+41) | 9327 | 2351 | 2733 | 1199 | 13.00 | 60.62 | 7.80 | 1.97 | 2.29 | |
| +10 (+50) | 11287 | 2844 | 3307 | 1313 | 13.80 | 73.95 | 8.57 | 2.16 | 2.51 | |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|-----------------|------|--------------------------|
| 1 Placa base | Grande | | |
| 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 | 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 | 9.6 +0.07/+0.00 | [mm] | (0.378" +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 | | |