

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | EM C26CLT |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 701FA95 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|-----------------------------------|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 220-240 / 50 | [V / Hz] | |
| 4 Application type | Low Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -10°C | (-31°F to 14°F) | |
| 5 Motor type | RSCR | | |
| 6 Starting torque | LST - Low Starting Torque | | |
| 7 Expansion device | Capillary tube | | |
| 8 Compressor cooling | | Operating voltage range | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | Static | 187 to 255 V | - |
| 8.2 LBP (43°C Ambient temperature) | Static | 187 to 255 V | - |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing temperature | | | |
| 9.1 Operating | 6.9 | [kgf/cm ²] (98 psig) | / °C - °F |
| 9.2 Peak | 7.8 | [kgf/cm ²] (111 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation | 1/10 | [hp] |
| 2 Displacement | 5.19 | [cm ³] (0.317 cu.in) |
| 2.1 Bore [mm] | 21.000 | |
| 2.2 Stroke [mm] | 15.000 | |
| 3 Lubricant charge | 150 | [ml] (5.07 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 7.6 | [kg] (16.75 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|--|------------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 220-240 V 50 Hz 1 ~ (Single phase) | |
| 2 Starting device type | PTC | |
| 2.1 Starting device | MI2021/V230 | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | 2(350)/2.5(350) | [µF(VAC minimum)] |
| 5 Motor protection | AE23AHNX | |
| 6 Start winding resistance | 33.40 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 57.00 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 2.27 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50 Hz) | 0.32 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50 Hz) | 0.41 | [A] - Measured according to UL 984 |
| 11 Approval boards certification | VDE | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|-------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|--|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE LBP-NOFAN Static | | Evaporating temperature (Condensing temperature | | -23.3°C (-9.94°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] |
| 273 | 69 | 80 | 47 | 0.21 | 0.86 | 5.82 | 1.47 | 1.71 |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|----------|-----|-----------------------------|---------------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | ASHRAE32-NOFAN Static | | | | (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] |
| -35 | (-31) | 159 | 40 | 47 | 31 | 0.14 | 0.50 | 5.15 | 1.30 | 1.51 |
| -30 | (-22) | 222 | 56 | 65 | 36 | 0.16 | 0.69 | 6.10 | 1.54 | 1.79 |
| -25 | (-13) | 298 | 75 | 87 | 42 | 0.19 | 0.93 | 7.07 | 1.78 | 2.07 |
| -20 | (- 4) | 389 | 98 | 114 | 48 | 0.21 | 1.22 | 8.11 | 2.04 | 2.38 |
| -15 | (+ 5) | 496 | 125 | 145 | 54 | 0.23 | 1.56 | 9.31 | 2.35 | 2.73 |
| -10 | (+14) | 621 | 156 | 182 | 58 | 0.25 | 1.96 | 10.71 | 2.70 | 3.14 |

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|-------------------------------|-------|----------------------------|----------|-----|-----------------------------|--|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | ASHRAE32-NOFAN Static | | | | (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] |
| -35 | (-31) | 134 | 34 | 39 | 31 | 0.14 | 0.42 | 4.37 | 1.10 | 1.28 |
| -30 | (-22) | 195 | 49 | 57 | 36 | 0.16 | 0.61 | 5.38 | 1.36 | 1.58 |
| -25 | (-13) | 271 | 68 | 79 | 42 | 0.19 | 0.85 | 6.32 | 1.59 | 1.85 |
| -20 | (- 4) | 360 | 91 | 106 | 49 | 0.22 | 1.13 | 7.26 | 1.83 | 2.13 |
| -15 | (+ 5) | 466 | 117 | 137 | 56 | 0.25 | 1.47 | 8.26 | 2.08 | 2.42 |
| -10 | (+14) | 588 | 148 | 172 | 63 | 0.28 | 1.86 | 9.39 | 2.37 | 2.75 |

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|-------------------------------|-------|----------------------------|----------|-----|-----------------------------|--|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | ASHRAE32-NOFAN Static | | | | (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] |
| -35 | (-31) | 111 | 28 | 33 | 32 | 0.15 | 0.35 | 3.49 | 0.88 | 1.02 |
| -30 | (-22) | 170 | 43 | 50 | 37 | 0.17 | 0.53 | 4.58 | 1.15 | 1.34 |
| -25 | (-13) | 242 | 61 | 71 | 44 | 0.20 | 0.76 | 5.51 | 1.39 | 1.62 |
| -20 | (- 4) | 329 | 83 | 96 | 51 | 0.23 | 1.03 | 6.36 | 1.60 | 1.86 |
| -15 | (+ 5) | 431 | 109 | 126 | 60 | 0.27 | 1.36 | 7.18 | 1.81 | 2.10 |
| -10 | (+14) | 550 | 138 | 161 | 68 | 0.31 | 1.73 | 8.05 | 2.03 | 2.36 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V50Hz | | ASHRAE32-NOFAN Static | | | (Condensing temperature 65°C (+149°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] |
| -35 | (-31) | 94 | 24 | 27 | 32 | 0.14 | 0.29 | 2.88 | 0.73 | 0.84 |
| -30 | (-22) | 148 | 37 | 43 | 37 | 0.16 | 0.46 | 4.06 | 1.02 | 1.19 |
| -25 | (-13) | 215 | 54 | 63 | 43 | 0.19 | 0.68 | 5.00 | 1.26 | 1.46 |
| -20 | (- 4) | 297 | 75 | 87 | 52 | 0.23 | 0.93 | 5.77 | 1.45 | 1.69 |
| -15 | (+ 5) | 394 | 99 | 115 | 61 | 0.27 | 1.24 | 6.44 | 1.62 | 1.89 |
| -10 | (+14) | 507 | 128 | 149 | 72 | 0.32 | 1.60 | 7.06 | 1.78 | 2.07 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard | | |
| 2 Tray holder | Yes | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.1 +0.10/+0.00 | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 42° up + 45° to Back | | |
| 3.2 DISCHARGE | 5.1 +0.10/+0.00 | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 0° up + 45° to Back | | |
| 3.3 PROCESS | 6 +0.08/-0.08 | [mm] | (0.236" +0.003"/-0.003") |
| 3.3.1 Material | Copper(OD) | | |
| 3.3.2 Shape | Slanted 43° up + 45° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |