

COMPRESSOR DEFINITION

| | |
|---------------------------|------------------------|
| Designation | EM X26CLC |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 898FA83 |

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 | 198 to 254 V | - |
| 8.2 LBP (43°C Ambient temperature) | Static | 198 to 254 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 | | [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 | 180 | [ml] (6.09 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 7.8 | [kg] (17.20 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 | TSD | |
| 2.1 Starting device | MI.E-START 2021 | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | 2.5(425) | [µF(VAC minimum)] |
| 5 Motor protection | AE23AHNX | |
| 6 Start winding resistance | 46.20 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 41.10 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 2.40 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50 Hz) | 0.20 | [A] |
| 10 FLA - Full Load Amperage HBP (50 Hz) | - | [A] |
| 11 Approval boards certification | VDE | |

D - PERFORMANCE - CHECK POINT DATA

| TEST CONDITIONS: @220V50Hz | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature | | -25°C (-13°F) 55°C (131°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] |
| 212 | 53 | 62 | 47 | 0.22 | 0.81 | 4.51 | 1.14 | 1.32 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V50Hz | | | CECOMAF 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) | 116 | 29 | 34 | 33 | 0.16 | 0.40 | 3.47 | 0.87 | 1.02 |
| -30 | (-22) | 183 | 46 | 54 | 39 | 0.19 | 0.64 | 4.61 | 1.16 | 1.35 |
| -25 | (-13) | 249 | 63 | 73 | 45 | 0.21 | 0.87 | 5.51 | 1.39 | 1.62 |
| -20 | (- 4) | 322 | 81 | 94 | 51 | 0.22 | 1.12 | 6.32 | 1.59 | 1.85 |
| -15 | (+ 5) | 408 | 103 | 120 | 57 | 0.24 | 1.42 | 7.16 | 1.81 | 2.10 |
| -10 | (+14) | 515 | 130 | 151 | 62 | 0.27 | 1.80 | 8.21 | 2.07 | 2.40 |

| TEST CONDITIONS: @220V50Hz | | | CECOMAF 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) | 85 | 21 | 25 | 32 | 0.15 | 0.32 | 2.65 | 0.67 | 0.78 |
| -30 | (-22) | 150 | 38 | 44 | 40 | 0.18 | 0.57 | 3.72 | 0.94 | 1.09 |
| -25 | (-13) | 212 | 53 | 62 | 47 | 0.21 | 0.81 | 4.49 | 1.13 | 1.32 |
| -20 | (- 4) | 278 | 70 | 82 | 55 | 0.24 | 1.06 | 5.10 | 1.29 | 1.49 |
| -15 | (+ 5) | 356 | 90 | 104 | 62 | 0.27 | 1.36 | 5.70 | 1.44 | 1.67 |
| -10 | (+14) | 451 | 114 | 132 | 70 | 0.30 | 1.73 | 6.44 | 1.62 | 1.89 |

| TEST CONDITIONS: @220V50Hz | | | CECOMAF 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) | 55 | 14 | 16 | 30 | 0.14 | 0.23 | 1.81 | 0.46 | 0.53 |
| -30 | (-22) | 115 | 29 | 34 | 39 | 0.18 | 0.48 | 2.87 | 0.72 | 0.84 |
| -25 | (-13) | 171 | 43 | 50 | 48 | 0.22 | 0.72 | 3.57 | 0.90 | 1.05 |
| -20 | (- 4) | 228 | 58 | 67 | 57 | 0.26 | 0.97 | 4.05 | 1.02 | 1.19 |
| -15 | (+ 5) | 295 | 74 | 86 | 66 | 0.30 | 1.25 | 4.47 | 1.13 | 1.31 |
| -10 | (+14) | 377 | 95 | 110 | 75 | 0.34 | 1.61 | 4.96 | 1.25 | 1.45 |

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° | | |
| 3.2 DISCHARGE | 4.95 +0.05/+0.05 | [mm] | (0.195" +0.002"/+0.002") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Vertical | | |
| 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 42° | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |