

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | EM X26CLC |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 875BA96 |

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) | 7.51 | [kg] (16.56 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 | TSD3-220V | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | 4(440) | [µF(VAC minimum)] |
| 5 Motor protection | 4TM 110NFBYY-73 | |
| 6 Start winding resistance | 22.37 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 70.00 | [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 | | | ASHRAELBP32 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] |
| 282 | 71 | 83 | 49 | 0.24 | 0.89 | 5.73 | 1.44 | 1.68 |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|--------------------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE32 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) | 151 | 38 | 44 | 33 | 0.19 | 0.47 | 4.56 | 1.15 | 1.33 |
| -30 | (-22) | 207 | 52 | 61 | 39 | 0.20 | 0.65 | 5.28 | 1.33 | 1.55 |
| -25 | (-13) | 279 | 70 | 82 | 46 | 0.23 | 0.88 | 6.07 | 1.53 | 1.78 |
| -20 | (- 4) | 366 | 92 | 107 | 53 | 0.26 | 1.15 | 6.93 | 1.75 | 2.03 |
| -15 | (+ 5) | 467 | 118 | 137 | 60 | 0.29 | 1.47 | 7.84 | 1.98 | 2.30 |
| -10 | (+14) | 582 | 147 | 170 | 66 | 0.32 | 1.83 | 8.82 | 2.22 | 2.59 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|--------------------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE32 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) | 128 | 32 | 37 | 33 | 0.19 | 0.40 | 3.91 | 0.99 | 1.15 |
| -30 | (-22) | 182 | 46 | 53 | 39 | 0.20 | 0.57 | 4.66 | 1.17 | 1.37 |
| -25 | (-13) | 252 | 64 | 74 | 46 | 0.23 | 0.79 | 5.42 | 1.37 | 1.59 |
| -20 | (- 4) | 337 | 85 | 99 | 54 | 0.27 | 1.06 | 6.19 | 1.56 | 1.81 |
| -15 | (+ 5) | 436 | 110 | 128 | 62 | 0.31 | 1.37 | 6.97 | 1.76 | 2.04 |
| -10 | (+14) | 548 | 138 | 161 | 71 | 0.35 | 1.73 | 7.76 | 1.96 | 2.27 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|--------------------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE32 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) | 102 | 26 | 30 | 33 | 0.19 | 0.32 | 3.13 | 0.79 | 0.92 |
| -30 | (-22) | 155 | 39 | 45 | 39 | 0.21 | 0.48 | 3.95 | 0.99 | 1.16 |
| -25 | (-13) | 222 | 56 | 65 | 47 | 0.24 | 0.70 | 4.72 | 1.19 | 1.38 |
| -20 | (- 4) | 304 | 77 | 89 | 56 | 0.28 | 0.95 | 5.46 | 1.38 | 1.60 |
| -15 | (+ 5) | 400 | 101 | 117 | 65 | 0.32 | 1.26 | 6.15 | 1.55 | 1.80 |
| -10 | (+14) | 509 | 128 | 149 | 75 | 0.36 | 1.61 | 6.81 | 1.72 | 2.00 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------|------|--------------------------|
| 1 Base plate | European Standard | | |
| 2 Tray holder | No | | |
| 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 | 5.1 +0.10/+0.00 | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Straight | | |
| 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 | | |