

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | EM T26CLP |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 891BA75 |

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-Medium Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -5°C | (-31°F to 23°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 pressures/temperature | | | |
| 9.1 Operating (gauge) | 7.7 | [kgf/cm ²] (109 psig) | / °C - °F |
| 9.2 Peak (gauge) | 9.8 | [kgf/cm ²] (139 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 | MINERAL / ISO7 | |
| 4 Weight (with oil charge) | 7 | [kg] (15.43 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 | 2019 | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | 2.5(450) | [µF(VAC minimum)] |
| 5 Motor protection | AD24AHN10 | |
| 6 Start winding resistance | 31.60 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 42.90 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 3.00 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50 Hz) | 0.32 | [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] |
| 218 | 55 | 64 | 62 | 0.30 | 0.83 | 3.51 | 0.88 | 1.03 |

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) | 134 | 34 | 39 | 48 | 0.26 | 0.47 | 2.77 | 0.70 | 0.81 |
| -30 | (-22) | 189 | 48 | 55 | 54 | 0.29 | 0.66 | 3.47 | 0.87 | 1.02 |
| -25 | (-13) | 253 | 64 | 74 | 61 | 0.31 | 0.88 | 4.17 | 1.05 | 1.22 |
| -20 | (- 4) | 328 | 83 | 96 | 67 | 0.33 | 1.14 | 4.88 | 1.23 | 1.43 |
| -15 | (+ 5) | 415 | 105 | 122 | 74 | 0.35 | 1.45 | 5.65 | 1.42 | 1.65 |
| -10 | (+14) | 517 | 130 | 151 | 80 | 0.37 | 1.81 | 6.48 | 1.63 | 1.90 |
| -5 | (+23) | 635 | 160 | 186 | 86 | 0.40 | 2.23 | 7.41 | 1.87 | 2.17 |

| 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) | 111 | 28 | 33 | 48 | 0.26 | 0.42 | 2.31 | 0.58 | 0.68 |
| -30 | (-22) | 161 | 40 | 47 | 55 | 0.28 | 0.61 | 2.93 | 0.74 | 0.86 |
| -25 | (-13) | 217 | 55 | 64 | 62 | 0.31 | 0.83 | 3.50 | 0.88 | 1.03 |
| -20 | (- 4) | 283 | 71 | 83 | 70 | 0.34 | 1.08 | 4.06 | 1.02 | 1.19 |
| -15 | (+ 5) | 360 | 91 | 106 | 78 | 0.37 | 1.38 | 4.63 | 1.17 | 1.36 |
| -10 | (+14) | 450 | 113 | 132 | 86 | 0.40 | 1.73 | 5.24 | 1.32 | 1.53 |
| -5 | (+23) | 555 | 140 | 163 | 94 | 0.44 | 2.14 | 5.91 | 1.49 | 1.73 |

| 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) | 84 | 21 | 25 | 48 | 0.26 | 0.36 | 1.77 | 0.45 | 0.52 |
| -30 | (-22) | 129 | 33 | 38 | 55 | 0.28 | 0.54 | 2.36 | 0.59 | 0.69 |
| -25 | (-13) | 180 | 45 | 53 | 63 | 0.31 | 0.76 | 2.87 | 0.72 | 0.84 |
| -20 | (- 4) | 238 | 60 | 70 | 72 | 0.34 | 1.01 | 3.33 | 0.84 | 0.98 |
| -15 | (+ 5) | 306 | 77 | 90 | 81 | 0.38 | 1.30 | 3.78 | 0.95 | 1.11 |
| -10 | (+14) | 386 | 97 | 113 | 91 | 0.42 | 1.64 | 4.22 | 1.06 | 1.24 |
| -5 | (+23) | 479 | 121 | 140 | 102 | 0.47 | 2.05 | 4.69 | 1.18 | 1.38 |

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 | 5.02 +0.02/-0.02 | [mm] | (0.198" +0.001"/-0.001") |
| 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 | | |