

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 | RSIR | | |
| 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) | - | - | - |
| 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 | - | [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) | 0.44 | [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] |
| 290 | 73 | 85 | 69 | 0.45 | 0.91 | 4.22 | 1.06 | 1.24 |

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) | 148 | 37 | 43 | 50 | 0.41 | 0.46 | 2.97 | 0.75 | 0.87 |
| -30 | (-22) | 210 | 53 | 61 | 56 | 0.42 | 0.66 | 3.74 | 0.94 | 1.10 |
| -25 | (-13) | 283 | 71 | 83 | 63 | 0.44 | 0.89 | 4.48 | 1.13 | 1.31 |
| -20 | (- 4) | 368 | 93 | 108 | 71 | 0.46 | 1.16 | 5.22 | 1.31 | 1.53 |
| -15 | (+ 5) | 468 | 118 | 137 | 79 | 0.48 | 1.47 | 5.97 | 1.50 | 1.75 |
| -10 | (+14) | 583 | 147 | 171 | 86 | 0.50 | 1.84 | 6.77 | 1.71 | 1.98 |
| -5 | (+23) | 715 | 180 | 209 | 94 | 0.53 | 2.26 | 7.63 | 1.92 | 2.24 |

| 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) | 135 | 34 | 40 | 50 | 0.41 | 0.42 | 2.69 | 0.68 | 0.79 |
| -30 | (-22) | 193 | 49 | 56 | 57 | 0.43 | 0.60 | 3.36 | 0.85 | 0.98 |
| -25 | (-13) | 262 | 66 | 77 | 66 | 0.45 | 0.82 | 4.00 | 1.01 | 1.17 |
| -20 | (- 4) | 346 | 87 | 101 | 75 | 0.47 | 1.09 | 4.62 | 1.17 | 1.35 |
| -15 | (+ 5) | 443 | 112 | 130 | 84 | 0.50 | 1.40 | 5.26 | 1.33 | 1.54 |
| -10 | (+14) | 557 | 140 | 163 | 94 | 0.53 | 1.76 | 5.94 | 1.50 | 1.74 |
| -5 | (+23) | 687 | 173 | 201 | 103 | 0.56 | 2.17 | 6.68 | 1.68 | 1.96 |

| 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) | 119 | 30 | 35 | 50 | 0.42 | 0.37 | 2.36 | 0.60 | 0.69 |
| -30 | (-22) | 173 | 44 | 51 | 59 | 0.44 | 0.54 | 2.97 | 0.75 | 0.87 |
| -25 | (-13) | 240 | 60 | 70 | 68 | 0.46 | 0.75 | 3.53 | 0.89 | 1.04 |
| -20 | (- 4) | 320 | 81 | 94 | 78 | 0.49 | 1.01 | 4.08 | 1.03 | 1.20 |
| -15 | (+ 5) | 416 | 105 | 122 | 90 | 0.52 | 1.31 | 4.64 | 1.17 | 1.36 |
| -10 | (+14) | 528 | 133 | 155 | 101 | 0.56 | 1.67 | 5.22 | 1.32 | 1.53 |
| -5 | (+23) | 657 | 166 | 193 | 112 | 0.60 | 2.08 | 5.87 | 1.48 | 1.72 |

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 | | |