

Model  
KLF5.6CND

Sales code:  
106H2605

Compressor Data

|                            |                      |
|----------------------------|----------------------|
| Refrigerant(s)             | R290                 |
| Refr. charge - tech. limit | 200g / 7.05oz        |
| Weight                     | 9.40 kg / 20.72lbs   |
| Displacement               | 5.60 cm3 / 0.34cu.in |
| Compressors on pallet      | 100                  |



General – Configurations With KLF5.6CND

| -                       | Conf. 1         | Conf. 2         |
|-------------------------|-----------------|-----------------|
| Motor configuration     | CSIR            | RSCR            |
| Power supply (nominal)  | 220-240 V/50 Hz | 220-240 V/50 Hz |
| Number of phases        | 1               | 1               |
| Voltage range           | 198-254 V       | 198-254 V       |
| Approvals               | VDE, CCC        | VDE, CCC        |
| Starting torque         | HST             | LST             |
| Refrigerant             | R290            | R290            |
| Application             | LBP+MBP         | LBP+MBP         |
| Hot gas defrost         | OK              | OK              |
| Long interval pull down | OK              | OK              |

Application Notes

- Housing with dip-tray fixture (omega bracket).
- Housing with dip-tray fixture (omega bracket).
- Provision for PE Grounding is located at the PE Stamp on the compressor

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### Compressor Design

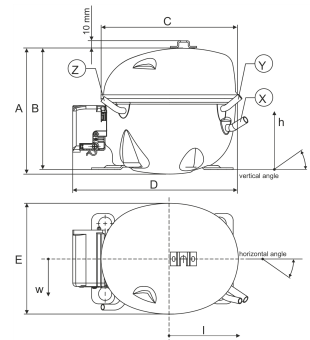
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | POE                                | Winding resistance main | 10.7 Ohm      |
| Oil viscosity         | 9,7cSt                             | Winding resistance aux  | 17 Ohm        |
| Oil quantity          | 165 / 5.58fl.oz                    | Max. winding temp.      | 125 °C        |
| Free gas volume comp. | 1,605 cm <sup>3</sup> / 54.27fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | external                           |                         |               |

### Compressor Dimensions

#### Housing

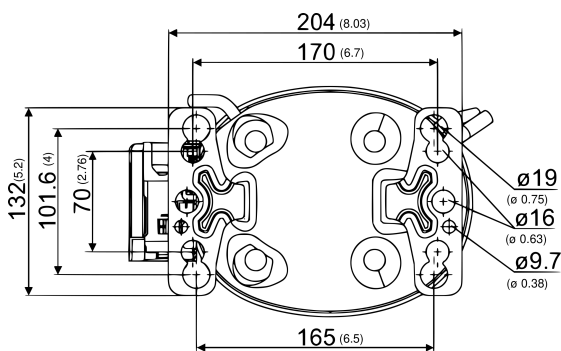
|                   |                |
|-------------------|----------------|
| A Height          | 182mm / 7.17in |
| B Height          | 175mm / 6.89in |
| C Length shell    | 198mm / 7.80in |
| D Length w. cover | 238mm / 9.37in |
| E Width           | 160mm / 6.30in |

[Find 3D Model here](#)

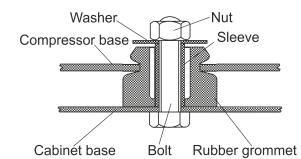


| Connectors            | Suction X                    | Discharge Y                   | Process Z                      |
|-----------------------|------------------------------|-------------------------------|--------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in   | øi 6.11–6.29 / 0.24–0.25in    | øi 6.11–6.29 / 0.24–0.25in     |
| Material              | CU                           | CU                            | CU                             |
| Horizontal angle ±2°  | 35°                          | 13°                           | 0°                             |
| Vertical angle ±2°    | 30°                          | 40°                           | 145°                           |
| Position l/h/w [mm]   | 119/73/59 / 4.69/2.87/2.32in | 117/107/66 / 4.61/4.21/2.60in | -88/101/71 / -3.46/3.98/2.80in |
| Straight tube l. [mm] | 13.5 / 0.53in                | 13.5 / 0.53in                 | 13.5 / 0.53in                  |

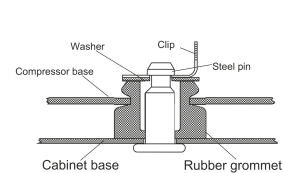
### Mounting Accessories



#### Bolt joint



#### Snap-on



Dimensions in mm [in]

|                            | one comp. | multi pack |
|----------------------------|-----------|------------|
| Bolt joint   M6   ø16mm    | 118-1917  | 118-1918   |
| Bolt joint   ø1/4"   ø16mm | 118-1946  | -          |
| Bolt joint   ø1/4"   ø19mm | 118-1949  | -          |
| Snap-on   ø7,3   ø16mm     | 118-1947  | 118-1919   |

Model

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Configuration 1

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Configuration

|                                    |                           |
|------------------------------------|---------------------------|
| Motor configuration                | <b>CSIR</b>               |
| Power supply (nominal)             | <b>220-240 V/50 Hz 1~</b> |
| Refrigerant                        | <b>R290</b>               |
| Application                        | <b>LBP+MBP</b>            |
| Voltage range                      | <b>198-254 V</b>          |
| Starting torque                    | <b>HST</b>                |
| Approvals                          | <b>VDE, CCC</b>           |
| Starting device type               | <b>relay</b>              |
| Run capacitor                      | <b>-/-</b>                |
| Start capacitor                    | <b>80 µF</b>              |
| LRA (locked rotor amps / 4s/ U(N)) | <b>11.4 A</b>             |
| RLA (rated load amps / 1s/ U(N))   | <b>1.6 A</b>              |
| Cut in current (U(N))              | <b>10.7 A</b>             |

**Ambient/ machine room temperatures minimum /maximum**

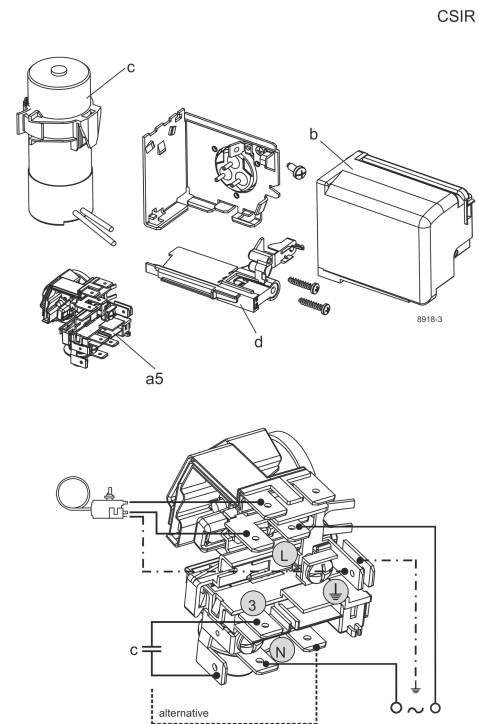
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

**System Cooling**

fan 3m/s

Electrical Accessories / Wiring Diagram



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**Components**

**a5** current relay (T0089/L6-S2) 117U7070

**c** start capacitor (80µF, 6.3mm) 117U5001

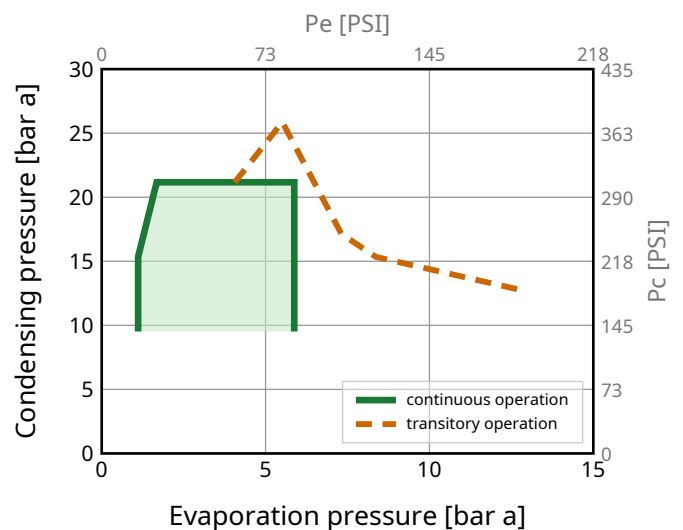
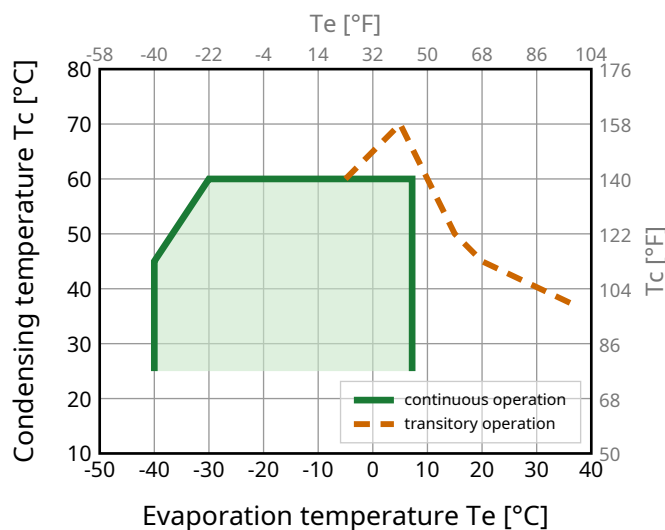
**b, d** cover + clamp + screws (5VA-compl.) 103N0600

**Alternative components**

**b, d** 100x cover + clamp + screws (5VA) 103N2060

**b, d** cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range



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Configuration 1

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Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

| pe           | pc            | RGT          | Tliq         | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |             |
|--------------|---------------|--------------|--------------|------------------|---------|----------|-------|----------|-----|------|--------|-------------|
| [°C]<br>[°F] | [°C]<br>[°F]  | [°C]<br>[°F] | [°C]<br>[°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90   | 275              | 939     | 237      | 1.55  | 5.30     | 177 | 1.22 | 2.79   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 204              | 695     | 175      | 1.19  | 4.07     | 171 | 1.20 | 2.55   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 149              | 509     | 128      | 1.21  | 4.12     | 123 | 1.07 | 1.71   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 495              | 1688    | 425      | 2.07  | 7.07     | 239 | 1.43 | 5.66   | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 392              | 1338    | 337      | 1.72  | 5.86     | 228 | 1.39 | 4.99   | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 436              | 1487    | 375      | 2.10  | 7.15     | 208 | 1.32 | 5.36   | EN12900 MBP |

Performance Tables

R290, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

| pe   |      | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |
|------|------|------------------|---------|----------|-------|----------|-----|------|--------|
| [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |
| -40  | -40  | 113              | 384     | 97       | 0.97  | 3.31     | 116 | 1.06 | 1.27   |
| -30  | -22  | 191              | 651     | 164      | 1.30  | 4.45     | 146 | 1.13 | 2.15   |
| -20  | -4   | 301              | 1026    | 259      | 1.69  | 5.76     | 178 | 1.22 | 3.42   |
| -10  | 14   | 453              | 1545    | 389      | 2.18  | 7.43     | 208 | 1.32 | 5.20   |
| 0    | 32   | 658              | 2246    | 566      | 2.84  | 9.68     | 232 | 1.40 | 7.65   |
| 7.2  | 45   | 845              | 2882    | 727      | 3.47  | 11.84    | 244 | 1.45 | 9.94   |

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

|     |     |     |      |     |      |      |     |      |      |
|-----|-----|-----|------|-----|------|------|-----|------|------|
| -40 | -40 | 76  | 259  | 65  | 0.66 | 2.23 | 116 | 1.06 | 0.94 |
| -30 | -22 | 156 | 533  | 134 | 1.03 | 3.51 | 152 | 1.14 | 1.95 |
| -20 | -4  | 258 | 880  | 222 | 1.35 | 4.62 | 190 | 1.26 | 3.25 |
| -10 | 14  | 392 | 1338 | 337 | 1.72 | 5.86 | 228 | 1.39 | 4.99 |
| 0   | 32  | 569 | 1943 | 490 | 2.18 | 7.43 | 262 | 1.52 | 7.34 |
| 7.2 | 45  | 730 | 2489 | 627 | 2.60 | 8.87 | 280 | 1.59 | 9.53 |

Model  
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Configuration 2

Sales code:  
**106H2605**

### Configuration

|                                    |                            |
|------------------------------------|----------------------------|
| Motor configuration                | <b>RSCR</b>                |
| Power supply (nominal)             | <b>220-240 V/50 Hz 1~</b>  |
| Refrigerant                        | <b>R290</b>                |
| Application                        | <b>LBP+MBP</b>             |
| Voltage range                      | <b>198-254 V</b>           |
| Starting torque                    | <b>LST</b>                 |
| Approvals                          | <b>VDE, CCC</b>            |
| Starting device type               | <b>PTC</b>                 |
| Run capacitor                      | <b>5 <math>\mu</math>F</b> |
| Start capacitor                    | <b>-/-</b>                 |
| LRA (locked rotor amps / 4s/ U(N)) | <b>11.4 A</b>              |
| RLA (rated load amps / 1s/ U(N))   | <b>1.6 A</b>               |
| Cut in current (U(N))              | <b>10.7 A</b>              |

### Ambient/ machine room temperatures minimum /maximum

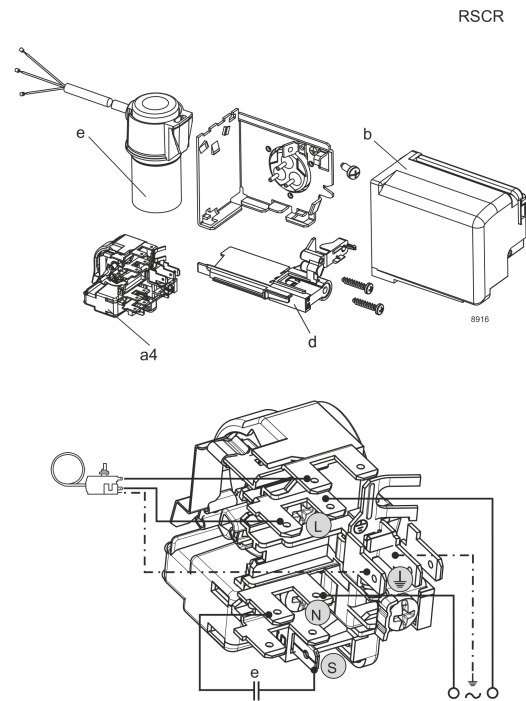
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

### System Cooling

fan 3m/s

### Electrical Accessories / Wiring Diagram



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### Components

**a4** DAS2 (PTC,6.3mm, T0089/L6 - S2) 103N0251

**e** run capacitor (5 $\mu$ F, 6.3mm) 117-7191

**b, d** cover + clamp + screws (5VA-compl.) 103N0600

### Alternative components

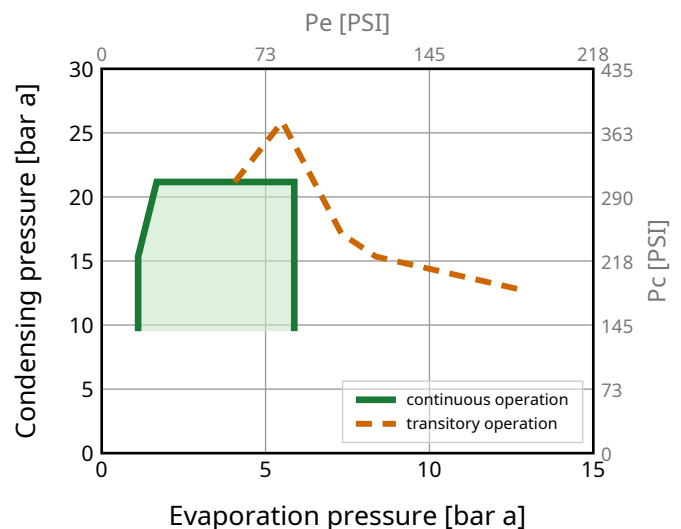
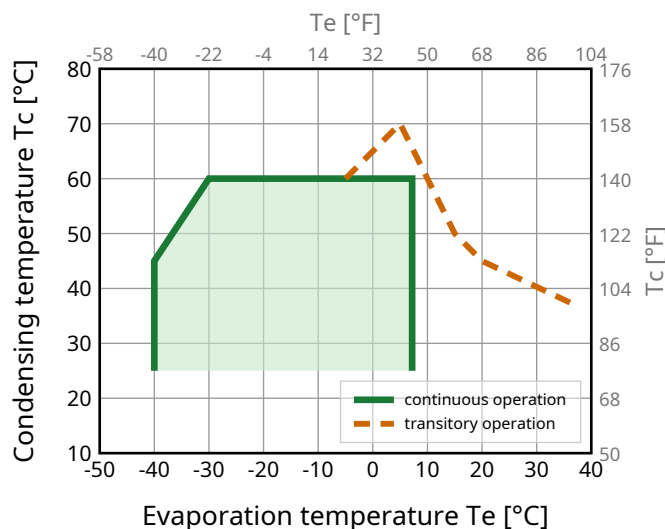
**a4** ZAS2 (PTC,4.8mm, T0089/L6 - S2) 103N0253

**e** run capacitor (5 $\mu$ F, 4.8mm) 117-7190

**b, d** 100x cover + clamp + screws (5VA) 103N2060

**b, d** cover + clamp + screws (5VA) in bag 103N1060

### Operation Pressure Range



Model  
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Configuration 2

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Standard Conditions

R290, 220 V/50 Hz, RSCR, fan 3m/s

| pe           | pc            | RGT          | Tliq         | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |             |
|--------------|---------------|--------------|--------------|------------------|---------|----------|-------|----------|-----|------|--------|-------------|
| [°C]<br>[°F] | [°C]<br>[°F]  | [°C]<br>[°F] | [°C]<br>[°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90   | 278              | 950     | 239      | 1.62  | 5.54     | 171 | 0.92 | 2.83   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 206              | 703     | 177      | 1.25  | 4.25     | 165 | 0.90 | 2.58   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 151              | 515     | 130      | 1.26  | 4.29     | 120 | 0.73 | 1.73   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 501              | 1709    | 431      | 2.17  | 7.40     | 231 | 1.17 | 5.73   | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 397              | 1355    | 341      | 1.80  | 6.13     | 221 | 1.13 | 5.05   | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 441              | 1504    | 379      | 2.19  | 7.47     | 202 | 1.05 | 5.43   | EN12900 MBP |

Performance Tables

R290, 220 V/50 Hz, RSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

| pe   |      | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |
|------|------|------------------|---------|----------|-------|----------|-----|------|--------|
| [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |
| -40  | -40  | 114              | 389     | 98       | 1.01  | 3.44     | 113 | 0.71 | 1.28   |
| -30  | -22  | 193              | 658     | 166      | 1.36  | 4.65     | 142 | 0.81 | 2.18   |
| -20  | -4   | 304              | 1038    | 262      | 1.76  | 6.02     | 172 | 0.93 | 3.46   |
| -10  | 14   | 458              | 1564    | 394      | 2.27  | 7.76     | 202 | 1.05 | 5.26   |
| 0    | 32   | 666              | 2273    | 573      | 2.96  | 10.10    | 225 | 1.15 | 7.75   |
| 7.2  | 45   | 855              | 2918    | 735      | 3.62  | 12.35    | 236 | 1.20 | 10.06  |

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

|     |     |     |      |     |      |      |     |      |      |
|-----|-----|-----|------|-----|------|------|-----|------|------|
| -40 | -40 | 77  | 262  | 66  | 0.68 | 2.32 | 113 | 0.71 | 0.95 |
| -30 | -22 | 158 | 539  | 136 | 1.07 | 3.67 | 147 | 0.83 | 1.97 |
| -20 | -4  | 261 | 891  | 224 | 1.42 | 4.83 | 184 | 0.97 | 3.29 |
| -10 | 14  | 397 | 1355 | 341 | 1.80 | 6.13 | 221 | 1.13 | 5.05 |
| 0   | 32  | 576 | 1967 | 496 | 2.28 | 7.77 | 253 | 1.27 | 7.43 |
| 7.2 | 45  | 739 | 2521 | 635 | 2.72 | 9.28 | 272 | 1.35 | 9.65 |