

# NL6F Standard Compressor R134a 220-240V 50Hz

## General

| Code number           | 105G6606                    |
|-----------------------|-----------------------------|
| Approvals             | EN 60335-2-34 with Annex AA |
| Compressors on pallet | 80                          |

## Application

| Application                                    |    | LE         | 3P |
|--|----|------------|----|
| Frequency                                      | Hz | 50         | 60 |
| Evaporating temperature                        | °C | -35 to -10 | _  |
| Voltage range                                  | V  | 198 - 254  | _  |
| Max. condensing temperature continuous (short) | °C | 60 (70)    | _  |
| Max. winding temperature continuous (short)    | °C | 125 (135)  | _  |

## **Cooling requirements**

| Frequency   | Hz |     | 50  |     |     | 60  |     |
|-------------|----|-----|-----|-----|-----|-----|-----|
| Application |    | LBP | МВР | HBP | LBP | МВР | НВР |
| 32°C        |    | S   | _   | _   | _   | _   | _   |
| 38°C        |    | S   | -   | _   | _   | -   | _   |
| 43°C        |    | _   | _   | _   | _   | _   | _   |

Remarks on application:

# Application NL6F R134a SUCTION Serial number 105G Barcode on white background Yellow background Country of origin or manufacturer

- S = Static cooling normally sufficient
  - = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficent
  - = not applicable in this area

## Motor

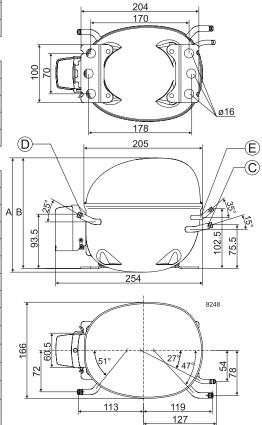
| Motor type                                | RSIR/CSIR |      |      |  |
|---|-----------|------|------|--|
| LRA (rated after 4 sec. UL984), HST   LST | Α         | 5.0  | 5.0  |  |
| Cut in Current, HST   LST                 | Α         | 5.0  | 9.6  |  |
| Resistance, main   start winding (25°C)   | Ω         | 16.0 | 13.6 |  |

### Design

| Displacement                        | cm <sup>3</sup> | 6.13 |
|-------------------------------------|-----------------|------|
| Oil quantity (type)                 | cm <sup>3</sup> | 320  |
| Maximum refrigerant charge          | g               | 400  |
| Free gas volume in compressor       | cm <sup>3</sup> | 2130 |
| Weight without electrical equipment | kg              | 9.3  |

## **Dimensions**

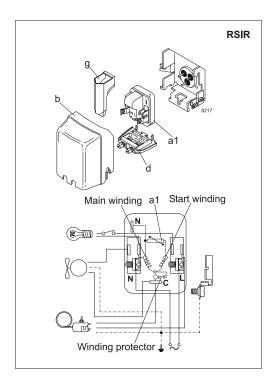
| Height               | mm                       | A 188                     |
|----------------------|--------------------------|---------------------------|
|                      |                          | B 181                     |
|                      |                          | B1 –                      |
|                      |                          | B2 –                      |
| Suction connector    | location/I.D. mm   angle | C 6.2   15°               |
|                      | material   comment       | Cu-plated steel   Al cap  |
| Process connector    | location/I.D. mm   angle | D 6.2   25°               |
|                      | material   comment       | Cu-plated steel   Al cap  |
| Discharge connector  | location/I.D. mm   angle | E 5.0   35°               |
|                      | material   comment       | Cu-plated steel   Al cap  |
| Oil cooler connector | location/I.D. mm   angle | F –                       |
|                      | material   comment       | _                         |
| Connector tolerance  | I.D. mm                  | ±0.09, on 5.0 +0.12/+0.20 |
| Remarks:             |                          |                           |

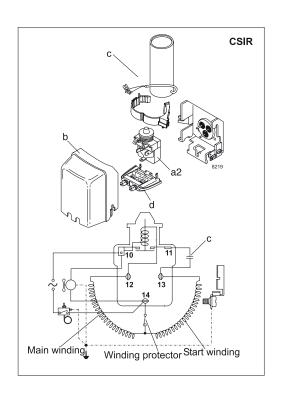


# **EN 12900 Household (CECOMAF)** 220V, 50Hz, static cooling, PTC consumption incl.

| Evap. temp in °C   | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W      |     |     | 52   | 77   | 110  | 123   | 151  | 200  | 258  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 80   | 98   | 118  | 125   | 139  | 161  | 185  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.78 | 0.81 | 0.86 | 0.88  | 0.92 | 0.99 | 1.08 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.65 | 0.78 | 0.93 | 0.99  | 1.09 | 1.24 | 1.39 |      |    |   |   |     |    |    |    |

| Evap. temp in °C   | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W      |     |     | 64   | 95   | 135  | 151   | 186  | 247  | 318  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 80   | 98   | 118  | 125   | 139  | 161  | 185  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.78 | 0.81 | 0.86 | 0.88  | 0.92 | 0.99 | 1.08 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.80 | 0.96 | 1.15 | 1.21  | 1.34 | 1.53 | 1.72 |      |    |   |   |     |    |    |    |





| Accessories for         | NL6F                    | Figure | Code number |
|-------------------------|-------------------------|--------|-------------|
| PTC starting device     | 6.3 mm spade connectors | -4     | 103N0011    |
|                         | 4.8 mm spade connectors | a1     | 103N0018    |
| Starting relay          | 6.3 mm spade connectors | a2     | 117U6004    |
| Start capacitor 80 µF   | 6.3 mm spade connectors | С      | 117U5015    |
| Cover                   |                         | b      | 103N2010    |
| Cord relief             |                         | d      | 103N1010    |
| Protection screen for P | ГС                      | g      | 103N0476    |

| Test conditions         | EN 12900/<br>CECOMAF | ASHRAE |
|-------------------------|----------------------|--------|
| Condensing temperature  | 55°C                 | 55°C   |
| Ambient temperature     | 32°C                 | 32°C   |
| Suction gas temperature | 32°C                 | 32°C   |
| Liquid temperature      | no subcooling        | 32°C   |

| Mounting accessories     |          | Code number |
|--------------------------|----------|-------------|
| Bolt joint for one comp. | Ø: 16 mm | 118-1917    |
| Bolt joint in quantities | Ø: 16 mm | 118-1918    |
| Snap-on in quantities    | Ø: 16 mm | 118-1919    |

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