

## Single Pack NLE13KK.4 220-240V 50Hz RSIR

Single pack code number: **195B4487**

| Position | Title                                      | Code     | Amount |
|----------|--|----------|--------|
| 1        | Compressor NLE13KK.4                       | 105H6959 | 1      |
| 2        | PTC starting device (220V, 250hm, 6.3mm)   | 103N0011 | 1      |
| 3        | Protection screen for PTC                  | 103N0476 | 1      |
| 4        | Cord relief                                | 103N1010 | 1      |
| 5        | Cover                                      | 103N2011 | 1      |
| 6        | Bolt joint for one compressor   M6   ø16mm | 118-1917 | 1      |

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## NLE13KK.4 Energy-optimized Compressor R600a 220-240V 50Hz

### General

|                       |                             |
|-----------------------|-----------------------------|
| Code number           | 105H6959                    |
| Approvals             | EN 60335-2-34 with Annex AA |
| Compressors on pallet | 80                          |

### Application

| Application                                    | LBP |            |    |
|--|-----|------------|----|
| 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 | MBP | HBP | LBP | MBP | HBP |
| 32°C                    |    | S   | —   | —   | —   | —   | —   |
| 38°C                    |    | S   | —   | —   | —   | —   | —   |
| 43°C                    |    | S   | —   | —   | —   | —   | —   |
| Remarks on application: |    |     |     |     |     |     |     |

### Motor

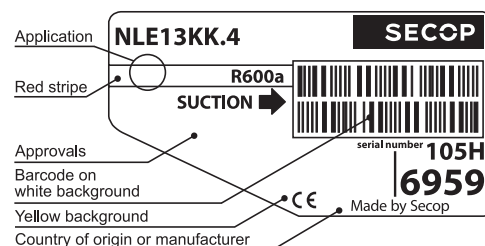
| Motor type                                | RSIR/RSCR |      |      |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST   LST | A         | —    | 5.8  |
| Cut in Current, HST   LST                 | A         | —    | 10.3 |
| Resistance, main   start winding (25°C)   | Ω         | 13.7 | 14.9 |

### Design

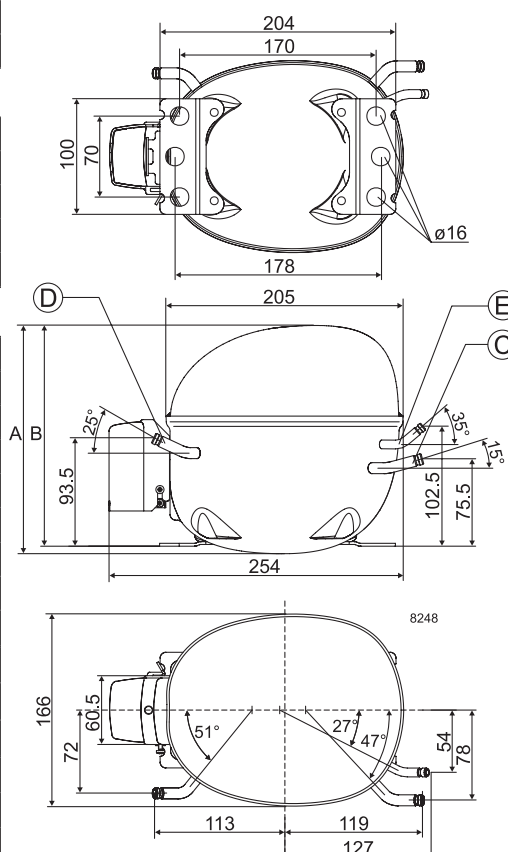
|                                     |                 |               |
|-------------------------------------|-----------------|---------------|
| Displacement                        | cm <sup>3</sup> | 13.25         |
| Oil quantity (type)                 | cm <sup>3</sup> | 270 (mineral) |
| Maximum refrigerant charge          | g               | 150           |
| Free gas volume in compressor       | cm <sup>3</sup> | 2310          |
| Weight without electrical equipment | kg              | 10.8          |

### Dimensions

|                      |                          |                           |           |
|----------------------|--------------------------|---------------------------|-----------|
| Height               | mm                       | A                         | 190       |
|                      |                          | B                         | 183       |
|                      |                          | 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:             |                          |                           |           |



- S = Static cooling normally sufficient
- O = 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 sufficient
- = not applicable in this area



**EN 12900 Household (CECOMAF)** 220V, 50Hz, 2 W PTC consumption incl., static cooling

| 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      |     |     | 98.7 | 131  | 170  | 185   | 217  | 274  | 340  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 108  | 126  | 144  | 151   | 164  | 187  | 214  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.86 | 0.90 | 0.97 | 1.00  | 1.05 | 1.16 | 1.27 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.91 | 1.04 | 1.18 | 1.23  | 1.32 | 1.46 | 1.59 |      |    |   |   |     |    |    |    |

**EN 12900 Household (CECOMAF)** 220V, 50Hz, RC 4µF, 2 W PTC consumption incl., static cooling

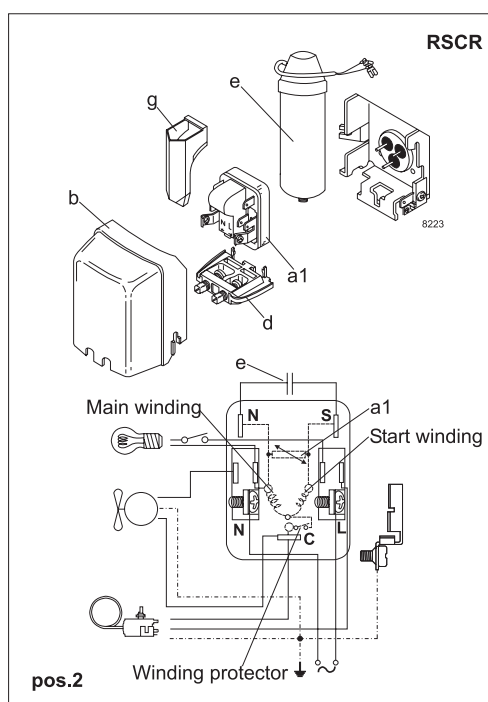
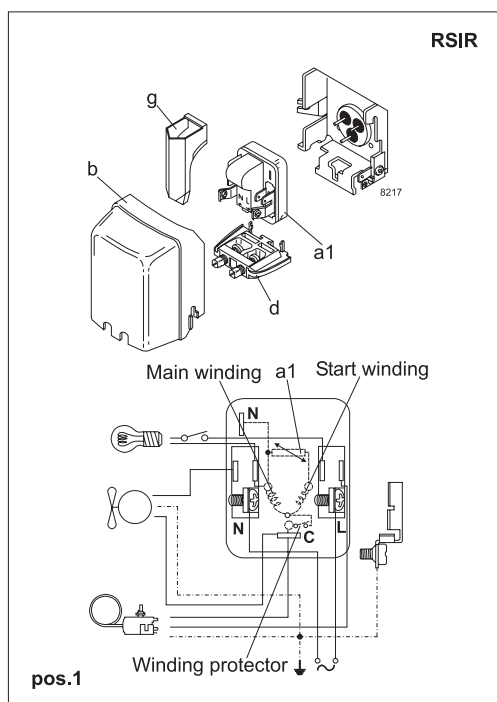
| Evap. temp in °C   | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W      |     |     | 98.7 | 131  | 170  | 185   | 217  | 274  | 340  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 104  | 121  | 138  | 145   | 158  | 179  | 203  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.57 | 0.65 | 0.73 | 0.76  | 0.83 | 0.94 | 1.06 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 0.95 | 1.08 | 1.23 | 1.28  | 1.38 | 1.53 | 1.67 |      |    |   |   |     |    |    |    |

**ASHRAE LBP** 220V, 50Hz, 2 W PTC consumption incl., static cooling

| 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      |     |     | 121  | 160  | 208  | 226   | 265  | 334  | 415  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 108  | 126  | 144  | 150   | 164  | 187  | 214  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.86 | 0.90 | 0.97 | 1.00  | 1.05 | 1.15 | 1.27 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 1.11 | 1.27 | 1.44 | 1.50  | 1.62 | 1.79 | 1.94 |      |    |   |   |     |    |    |    |

**ASHRAE LBP** 220V, 50Hz, RC 4µF, 2 W PTC consumption incl., static cooling

| 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      |     |     | 121  | 160  | 208  | 226   | 265  | 334  | 415  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 104  | 121  | 138  | 144   | 157  | 178  | 203  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.57 | 0.65 | 0.73 | 0.76  | 0.83 | 0.93 | 1.05 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 1.16 | 1.32 | 1.50 | 1.57  | 1.69 | 1.87 | 2.05 |      |    |   |   |     |    |    |    |

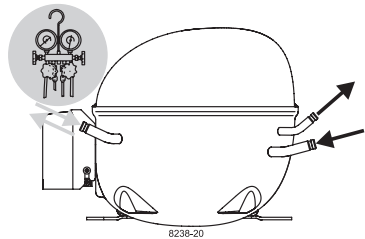


| Accessories for           | NLE13KK.4               | Figure        | Code number | Test conditions         | EN 12900/<br>CECOMAF | ASHRAE |
|---------------------------|-------------------------|---------------|-------------|-------------------------|----------------------|--------|
| PTC starting device       | 6.3 mm spade connectors | a1<br>(pos.1) | 103N0011    | Condensing temperature  | 55°C                 | 54.4°C |
|                           | 4.8 mm spade connectors |               | 103N0018    | Ambient temperature     | 32°C                 | 32°C   |
| PTC starting device       | 6.3 mm spade connectors | a1<br>(pos.2) | 103N0016    | Suction gas temperature | 32°C                 | 32°C   |
|                           | 4.8 mm spade connectors |               | 103N0021    | Liquid temperature      | no subcooling        | 32°C   |
| ePTC starting device      | 4.8 mm spade connectors |               | 103N0050    |                         |                      |        |
| Cover                     |                         | b             | 103N2010    |                         |                      |        |
| Cord relief               |                         | d             | 103N1010    |                         |                      |        |
| Run capacitor 4 µF        | 6.3 mm spade connectors | e             | 117-7117    |                         |                      |        |
| (optional)                | 4.8 mm spade connectors |               | 117-7119    |                         |                      |        |
| Protection screen for PTC |                         | g             | 103N0476    |                         |                      |        |

| 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    |

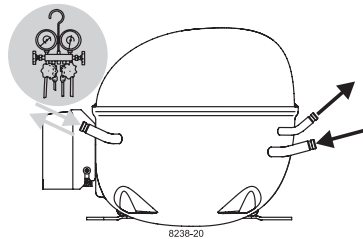
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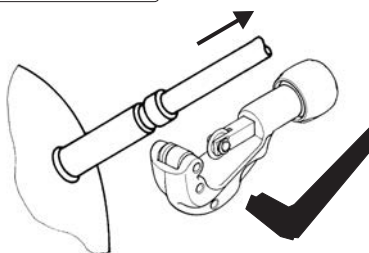
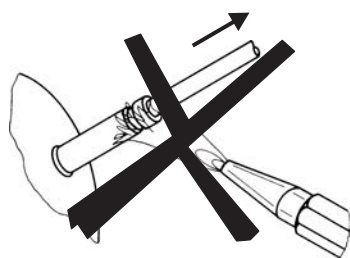
# NL Compressors

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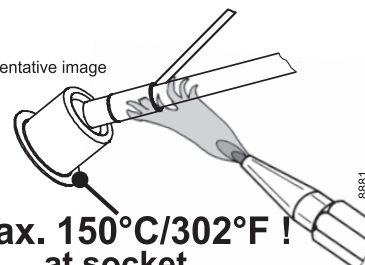


## Service/Repair – R600a, R290



## Brazing on Suction Connectors (Direct Intake)

representative image



**! max. 150°C/302°F !  
at socket**  
brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:  
**Brazing on Suction Connectors  
(Compressors with Direct Suction Intake)**

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