

## NLU15KTK.1 High Energy-optimized Tropical Compressor R600a, 220-240V 50Hz

### General

|                       |                             |
|-----------------------|-----------------------------|
| Code number           | 105H6554                    |
| 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   | 187 - 254  | -  |
| Max. condensing temperature continuous (short) | °C  | 60 (70)    | -  |
| Max. winding temperature continuous (short)    | °C  | 95 (115)   | -  |

### 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

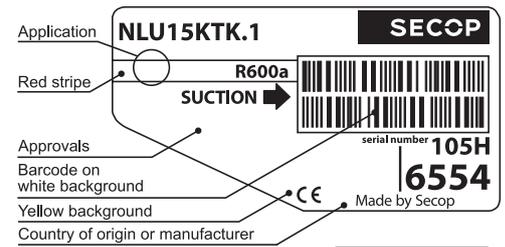
| Motor type                                | RSCR |     |      |
|---|------|-----|------|
| LRA (rated after 4 sec. UL984), HST   LST | A    | -   | 7.1  |
| Cut in Current, HST   LST                 | A    | -   | 7.0  |
| Resistance, main   start winding (25°C)   | Ω    | 9.0 | 15.0 |

### Design

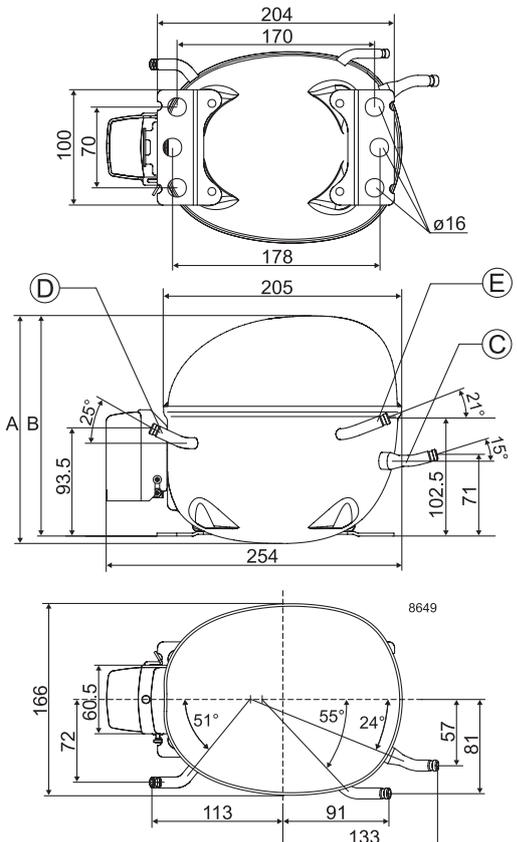
|                                     |                 |               |
|-------------------------------------|-----------------|---------------|
| Displacement                        | cm <sup>3</sup> | 14.65         |
| Oil quantity (type)                 | cm <sup>3</sup> | 270 (mineral) |
| Maximum refrigerant charge          | g               | 150           |
| Free gas volume in compressor       | cm <sup>3</sup> | 2360          |
| Weight without electrical equipment | kg              | 12.1          |

### Dimensions

|                      |                          |    |                           |
|----------------------|--------------------------|----|---------------------------|
| Height               | mm                       | A  | 203                       |
|                      |                          | B  | 197                       |
|                      |                          | 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   21°                 |
|                      | 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

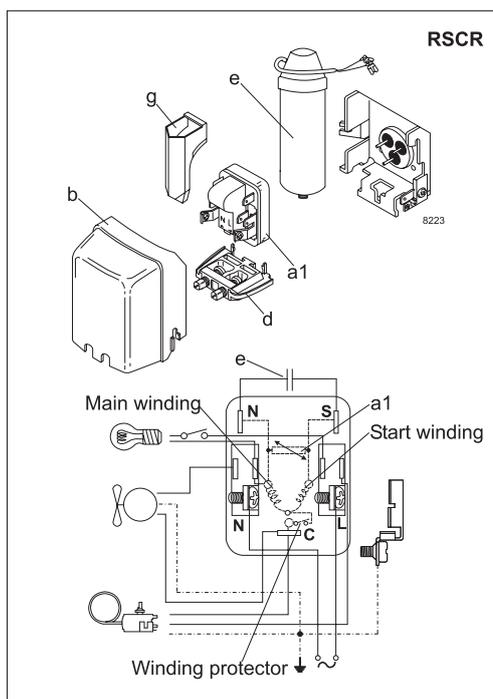


**EN 12900 Household (CECOMAF)** 220V, 50Hz, RC 4 µF, ePTC consumption incl., static cooling

|                    |     |     |      |      |      |       |      |      |      |      |    |   |   |     |    |    |    |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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      |     |     | 106  | 146  | 194  | 213   | 252  | 321  | 401  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 93.2 | 114  | 134  | 142   | 155  | 177  | 201  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.46 | 0.57 | 0.68 | 0.71  | 0.78 | 0.90 | 1.02 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 1.14 | 1.29 | 1.45 | 1.51  | 1.62 | 1.81 | 2.00 |      |    |   |   |     |    |    |    |

**ASHRAE LBP** 220V, 50Hz, RC 4 µF, ePTC 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      |     |     | 130  | 179  | 238  | 259   | 308  | 392  | 490  |      |    |   |   |     |    |    |    |
| Power cons. in W   |     |     | 93.4 | 114  | 134  | 141   | 155  | 177  | 200  |      |    |   |   |     |    |    |    |
| Current cons. in A |     |     | 0.46 | 0.56 | 0.67 | 0.68  | 0.78 | 0.90 | 1.01 |      |    |   |   |     |    |    |    |
| COP in W/W         |     |     | 1.39 | 1.57 | 1.77 | 1.84  | 1.99 | 2.22 | 2.45 |      |    |   |   |     |    |    |    |



| Accessories for                 | NLU15KTK.1              | Figure | Code number |
|---------------------------------|-------------------------|--------|-------------|
| PTC starting device             | 6.3 mm spade connectors | a1     | -           |
|                                 | 4.8 mm spade connectors |        | 103N0021    |
| ePTC starting device            | 4.8 mm spade connectors |        | 103N0055    |
| Cover                           |                         | b      | 103N2010    |
| Run capacitor 4 µF (compulsory) | 6.3 mm spade connectors | e      | -           |
|                                 | 4.8 mm spade connectors |        | 117-7119    |
| Cord relief                     |                         | d      | 103N1010    |
| Protection screen for PTC       |                         | g      | 103N0476    |

| Test conditions         | EN 12900/CECOMAF | ASHRAE LBP |
|-------------------------|------------------|------------|
| Condensing temperature  | 55°C             | 54.4°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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