

NLE15KTK.2

Energy-optimized Tropical Compressor

R600a

220-240V 50Hz

General

| | |
|-----------------------|---------------|
| Code number | 105H6966 |
| Approvals | EN 60335-2-34 |
| 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 | 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

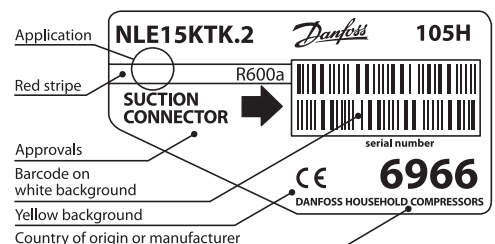
| Motor type | RSIR/RSCR | | |
|---|-----------|-----|------|
| LRA (rated after 4 sec. UL984), HST LST | A | - | 8.4 |
| Cut in Current, HST LST | A | - | 13.1 |
| Resistance, main start winding (25°C) | Ω | 9.0 | 12.0 |

Design

| | | |
|-------------------------------------|-----------------|---------------|
| Displacement | cm ³ | 14.65 |
| Oil quantity (type) | cm ³ | 320 (mineral) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 2360 |
| Weight without electrical equipment | kg | 10.8 |

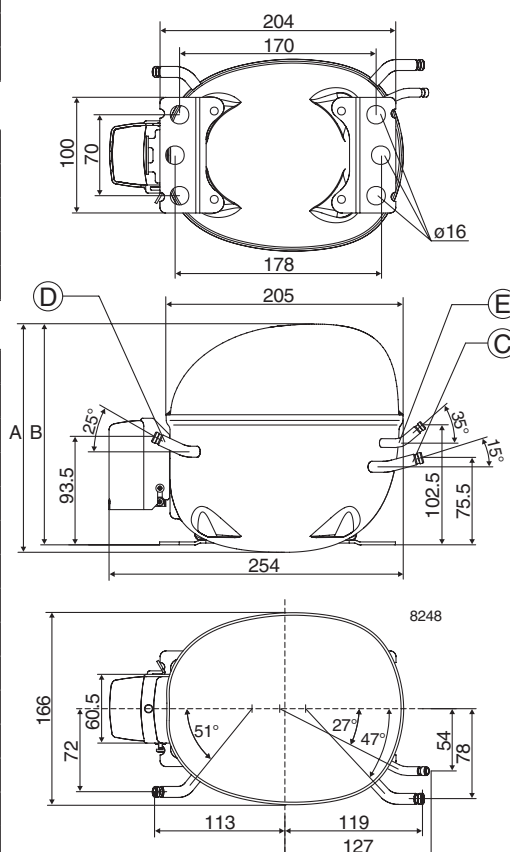
Dimensions

| | | | |
|----------------------|--------------------------|---------------------------|-----------|
| 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 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: | | | |



Yellow warning label

- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area

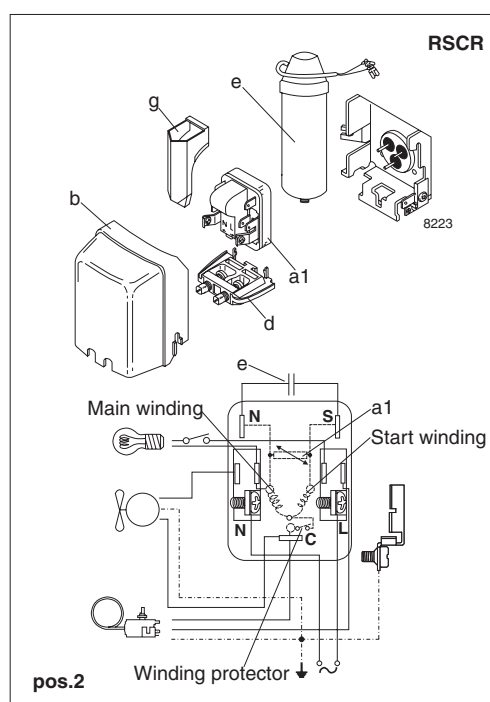
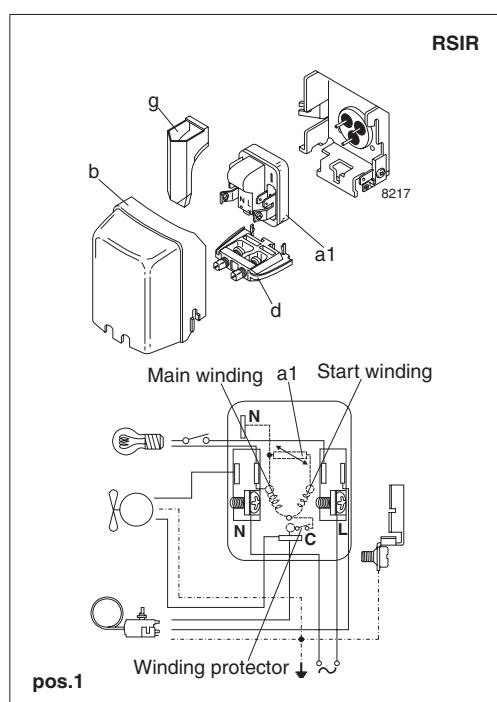


EN 12900 Household (CECOMAF) 220V, 50Hz, 2 W PTC consumption incl., static cooling

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 104 | 141 | 186 | 204 | 241 | 308 | 387 | | | | | | | | |
| Power cons. in W | | | 116 | 140 | 163 | 171 | 186 | 209 | 234 | | | | | | | | |
| Current cons. in A | | | 1.04 | 1.14 | 1.24 | 1.28 | 1.35 | 1.46 | 1.58 | | | | | | | | |
| COP in W/W | | | 0.89 | 1.00 | 1.14 | 1.19 | 1.30 | 1.47 | 1.65 | | | | | | | | |

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 | | | 126 | 171 | 227 | 249 | 295 | 376 | 473 | | | | | | | | |
| Power cons. in W | | | 116 | 140 | 163 | 170 | 185 | 208 | 233 | | | | | | | | |
| Current cons. in A | | | 1.04 | 1.14 | 1.24 | 1.28 | 1.35 | 1.46 | 1.57 | | | | | | | | |
| COP in W/W | | | 1.09 | 1.22 | 1.40 | 1.46 | 1.59 | 1.80 | 2.03 | | | | | | | | |



| Accessories | NLE15KTK.2 | Figure | Code number |
|-------------------------------|-------------------------|---------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0011 |
| | 4.8 mm spade connectors | (pos.1) | 103N0018 |
| PTC starting device | 6.3 mm spade connectors | a1 | 103N0016 |
| | 4.8 mm spade connectors | (pos.2) | 103N0021 |
| ePTC starting device | 4.8 mm spade connectors | | 103N0050 |
| Cover | | b | 103N2010 |
| Cord relief | | d | 103N1010 |
| Run capacitor 4 µF (optional) | 6.3 mm spade connectors | e | 117-7117 |
| | 4.8 mm spade connectors | | 117-7119 |
| Protection screen for PTC | | g | 103N0476 |

| Test conditions | EN 12900/CECOMAF | ASHRAE |
|-------------------------|------------------|--------|
| 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 compressor | 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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