

NLE13KTK.2 Energy-optimized Tropical Compressor R600a 220-240V 50Hz

General

| | |
|-----------------------|----------|
| Code number | 105H6929 |
| Approvals | - |
| 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

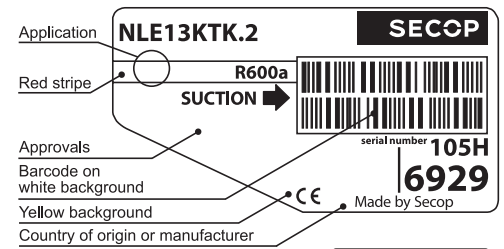
| Motor type | RSIR/RSCR | | |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | - | 5.0 |
| Cut in Current, HST LST | A | - | 10.0 |
| Resistance, main start winding (25°C) | Ω | 12.0 | 10.0 |

Design

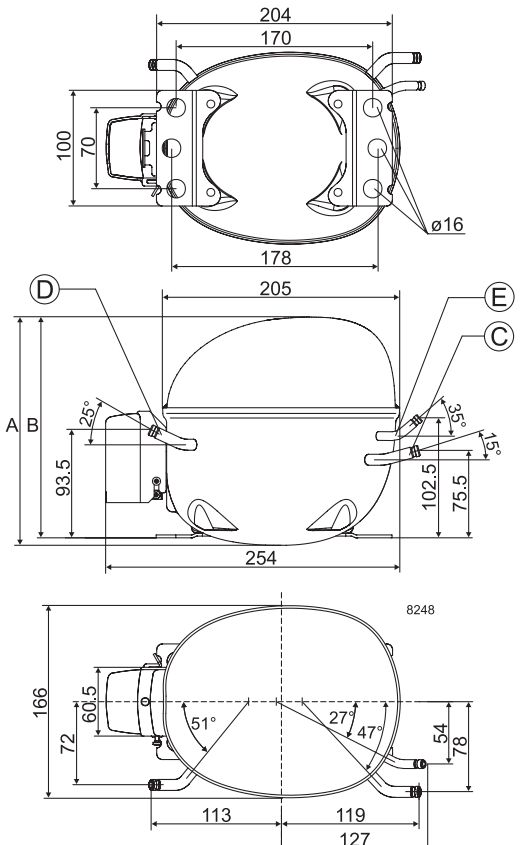
| | | |
|-------------------------------------|-----------------|---------------|
| Displacement | cm ³ | 13.25 |
| Oil quantity (type) | cm ³ | 300 (mineral) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 2310 |
| Weight without electrical equipment | kg | 10.8 |

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: | | | |



- 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

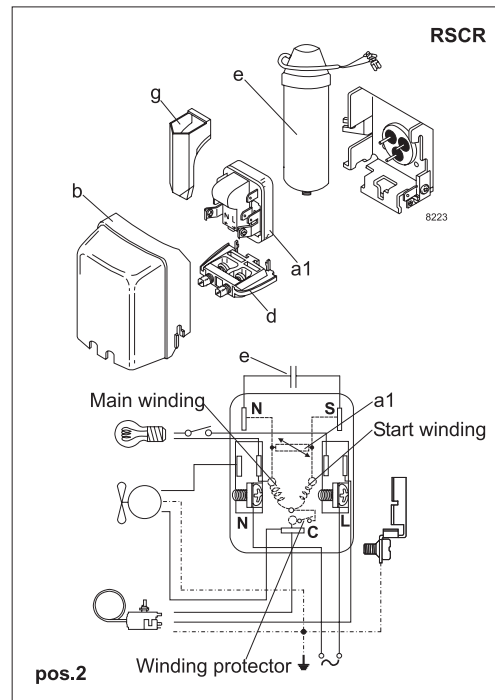
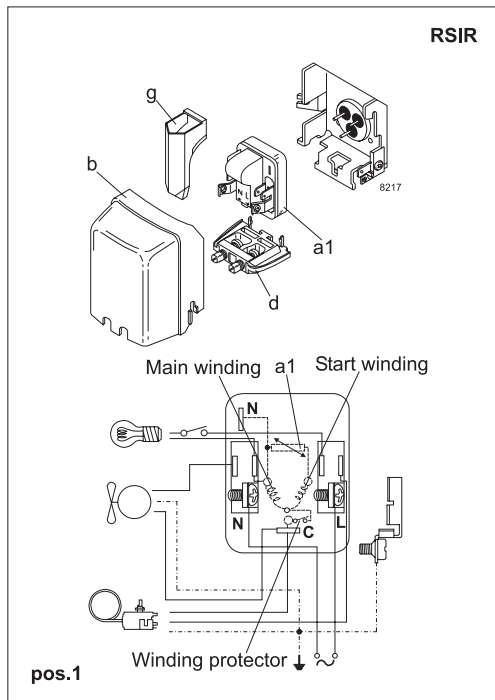


EN 12900 Household (CECOMAF) 220V, 50Hz, 2 W PTC consumption incl., static cooling

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 96 | 130 | 171 | 186 | 219 | 277 | 345 | | | | | | | | |
| Power cons. in W | | | 108 | 127 | 144 | 150 | 161 | 180 | 200 | | | | | | | | |
| Current cons. in A | | | 1.01 | 1.04 | 1.08 | 1.09 | 1.13 | 1.19 | 1.27 | | | | | | | | |
| COP in W/W | | | 0.88 | 1.03 | 1.18 | 1.24 | 1.36 | 1.54 | 1.73 | | | | | | | | |

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 | | | 117 | 158 | 208 | 227 | 267 | 338 | 421 | | | | | | | | |
| Power cons. in W | | | 109 | 127 | 144 | 149 | 161 | 179 | 199 | | | | | | | | |
| Current cons. in A | | | 1.00 | 1.03 | 1.07 | 1.09 | 1.13 | 1.19 | 1.26 | | | | | | | | |
| COP in W/W | | | 1.08 | 1.25 | 1.45 | 1.52 | 1.66 | 1.89 | 2.11 | | | | | | | | |



| Accessories for | NLE13KTK.2 | Figure | Code number |
|----------------------------------|-------------------------|---------------|-------------|
| PTC starting device | 6.3 mm spade connectors | a1 (pos.1) | 103N0011 |
| | 4.8 mm spade connectors | | 103N0018 |
| PTC starting device | 6.3 mm spade connectors | a1 (pos.2) | 103N0016 |
| | 4.8 mm spade connectors | | 103N0021 |
| ePTC starting device | 4.8 mm spade connectors | | 103N0050 |
| Cover | | b | 103N2010 |
| Run capacitor 4 µF (optional) | 6.3 mm spade connectors | e | 117-7117 |
| | 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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