

NLE11KTK Energy-optimized Tropical Compressor R600a 115-127V 60Hz

General

| | |
|-----------------------|----------|
| Code number | 105H5942 |
| Approvals | UL984 |
| Compressors on pallet | 80 |

Application

| Application | LBP/MBP | | | |
|--|---------|----|--------------------------------|--|
| | Hz | 50 | 60 | |
| Frequency | Hz | 50 | 60 | |
| Evaporating temperature | °F | - | LBP: -20 to 10 MBP: 0 to 45 | |
| Voltage range | V | - | 95 - 135 | |
| Max. condensing temperature continuous (short) | °F | - | 140 (158) | |
| Max. winding temperature continuous (short) | °F | - | 257 (275) | |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-----------|----|-----|-----|-----|-----|-----|-----|
| | | LBP | MBP | HBP | LBP | MBP | HBP |
| 90°F | | - | - | - | S | S | - |
| 100°F | | - | - | - | S | S | - |
| 110°F | | - | - | - | S | S | - |

Remarks on application:

Fan and other accessories near the compressor have to be of "n" type protection according to IEC 79-15. MBP & commercial application only with timer function for ensuring pressure equalization, e.g. *Danfoss Electronic Thermostate type ETC1*.

Motor

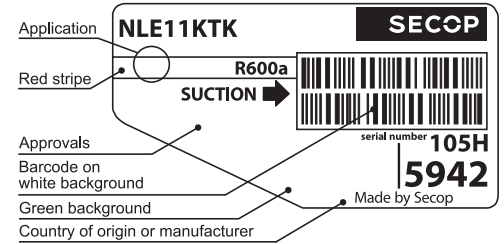
| Motor type | RSIR/RSCR | | |
|---|-----------|-----|------|
| LRA (rated after 4 sec. UL984), HST LST | A | - | 28.0 |
| Cut in Current, HST LST | A | - | 18.8 |
| Resistance, main start winding (77°F) | Ω | 1.9 | 3.9 |

Design

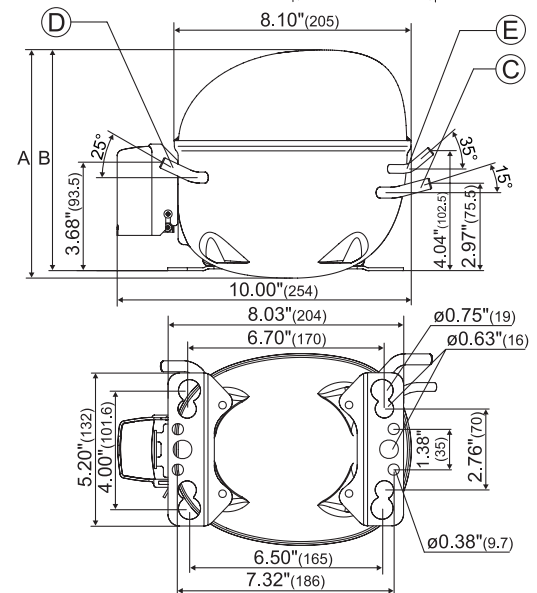
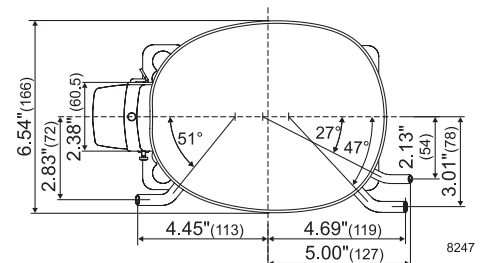
| | | |
|-------------------------------------|--------|---------------------|
| Displacement | cu.in | 0.68 |
| Oil quantity (type) | fl.oz. | 10.14 (polyolester) |
| Maximum refrigerant charge | oz. | 5.3 |
| Free gas volume in compressor | fl.oz. | 79.7 |
| Weight without electrical equipment | lbs. | 22.0 |

Dimensions

| Height | inch | A | 7.76 |
|----------------------|----------------------------|----|----------------------|
| | | B | 7.52 |
| | | B1 | - |
| | | B2 | - |
| Suction connector | location, I.D. in. angle | C | 0.252-0.259 15° |
| | material comment | | Copper Rubber plug |
| Process connector | location, I.D. in. angle | D | 0.252-0.259 25° |
| | material comment | | Copper Rubber plug |
| Discharge connector | location, I.D. in. angle | E | 0.202-0.205 35° |
| | material comment | | Copper Rubber plug |
| Oil cooler connector | location, I.D. in. angle | F | - |
| | material comment | | - |
| 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



ASHRAE LBP

Static cooling 115V 60Hz, PTC consumption incl.

| | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 20 | 30 | 40 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | | 363 | 493 | 612 | 671 | 892 | 1165 | 1546 | 1884 | 2224 | 2396 | | | |
| Power cons. in W | | | 114 | 138 | 154 | 161 | 182 | 202 | 246 | 272 | 295 | 304 | | | |
| Current cons. in A | | | 2.35 | 2.45 | 2.52 | 2.55 | 2.66 | 2.77 | 3.03 | 3.21 | 3.36 | 3.52 | | | |
| EER in BTU/Wh | | | 3.18 | 3.57 | 3.97 | 4.17 | 4.90 | 5.77 | 6.28 | 6.93 | 7.54 | 7.88 | | | |

ASHRAE MBP

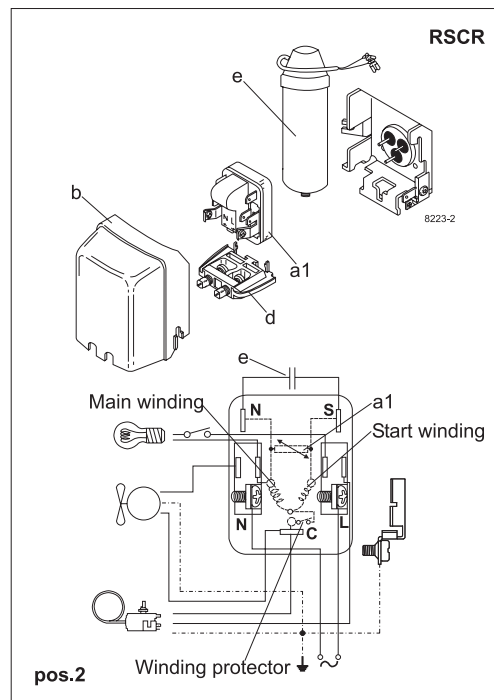
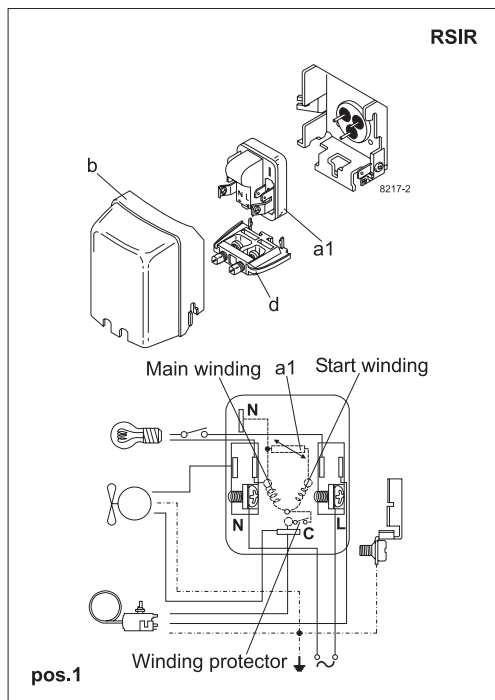
Static cooling 115V 60Hz, PTC consumption incl.

| | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 20 | 30 | 40 | 45 | 50 | 59 | 68 |
| Capacity in BTU/h | | | 329 | 447 | 555 | 609 | 809 | 1057 | 1402 | 1708 | 2016 | 2171 | | | |
| Power cons. in W | | | 114 | 138 | 154 | 161 | 182 | 202 | 246 | 272 | 295 | 304 | | | |
| Current cons. in A | | | 2.35 | 2.45 | 2.52 | 2.55 | 2.66 | 2.77 | 3.03 | 3.21 | 3.36 | 3.52 | | | |
| EER in BTU/Wh | | | 2.89 | 3.24 | 3.61 | 3.78 | 4.45 | 5.23 | 5.70 | 6.28 | 6.83 | 7.14 | | | |

EN 12900 Household (CECOMAF)

Static cooling 115V 60Hz, PTC consumption incl.

| | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|------|------|------|------|------|------|------|----|----|----|
| Evap. temp. in °F | -49 | -40 | -30 | -20 | -13 | -10 | 0 | 10 | 20 | 30 | 40 | 45 | 50 | 59 | 68 |
| Capacity in W | | | 88 | 119 | 148 | 162 | 215 | 281 | 372 | 453 | 535 | 575 | | | |
| Power cons. in W | | | 114 | 138 | 154 | 161 | 182 | 202 | 246 | 272 | 295 | 304 | | | |
| Current cons. in A | | | 2.35 | 2.45 | 2.52 | 2.55 | 2.66 | 2.77 | 3.03 | 3.21 | 3.36 | 3.52 | | | |
| COP in W/W | | | 0.77 | 0.86 | 0.96 | 1.00 | 1.18 | 1.39 | 1.51 | 1.67 | 1.81 | 1.89 | | | |



| Accessories for | NLE11KTK | Figure | Code number |
|---------------------|-------------------------|---------|-------------|
| PTC starting device | 1/4 in. spade connect. | a1 | 103N0026 |
| | 3/16 in. spade connect. | (pos.1) | 103N0023 |
| PTC starting device | 1/4 in. spade connect. | a1 | 103N0027 |
| | 3/16 in. spade connect. | (pos.2) | 103N0024 |
| Cover | | b | 103N2010 |
| Cord relief | | d | 103N1010 |
| Run capacitor | 1/4 in. spade connect. | e | 117-7118 |
| 15 µF (optional) | 3/16 in. spade connect. | | 117-7120 |

| Test conditions | ASHRAE LBP | ASHRAE MBP | EN 12900/CECOMAF |
|--------------------|------------|------------|------------------|
| Condensing temp. | 130°F | 130°F | 131°F |
| Ambient temp. | 90°F | 95°F | 90°F |
| Suction gas temp. | 90°F | 95°F | 90°F |
| Liquid temperature | 90°F | 115°F | 131°F |

| Mounting accessories | Code number | |
|--------------------------|-------------|----------|
| Bolt joint for one comp. | Ø: 5/8 in. | 118-1917 |
| Bolt joint in quantities | Ø: 5/8 in. | 118-1918 |
| Snap-on in quantities | Ø: 5/8 in. | 118-1919 |

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