


Mbsm.pro, Danfoss, Reciprocating, compressor, NLX11KK.2, 105H6971, NLX11KK.2 105H6971, 1/4 hp++, 1/3 hp-, r600a

written by mahdi miled | 10 November 2022



| | | | -35 | -30 | -20 | -15 | -10 | -5 | 0 | 5 | [W] | [W/W] | [W/W] | [W] | [kcal/h] | [W/W] | [kcal/Wh] | | | |
|------------------|-----------------------|-------------|-----------|------------|----------|-----|-----|-----|-----|-----|-----|-------|---------|---------|----------|-------|-----------|------|------|------|
| Energy-optimized | 1. | PLE35K | 101H0360 | | | 38 | 52 | 68 | 87 | 109 | | 27 | | 0.68 | 38 | 33 | | | | |
| | | TLES4KK.3 | 102H4438 | 19 | 29 | 57 | 75 | 96 | | | | 42 | 0.90 | | 57 | 49 | 1.18 | | | |
| | | TLES4.8KK.3 | 102H4538 | 28 | 40 | 73 | 94 | 119 | | | | 55 | 1.00 | | 74 | 65 | 1.30 | | | |
| | 2. | TLES5.7KK.3 | 102H4638 | 36 | 50 | 89 | 114 | 144 | | | | 68 | 1.02 | | 91 | 79 | 1.32 | | | |
| | | TLES6.5KK.3 | 102H4738 | 45 | 61 | 105 | 134 | 168 | | | | 81 | 1.02 | | 108 | 94 | 1.31 | | | |
| | | TLES7.5KK.3 | 102H4838 | 53 | 71 | 122 | 155 | 194 | | | | 94 | 1.02 | 1.07 | 126 | 108 | 1.32 | 1.14 | | |
| | 3. | TLES8.7KK.3 | 102H4938 | 62 | 83 | 143 | 181 | 228 | | | | 110 | 1.03 | 1.08 | 147 | 126 | 1.33 | 1.14 | | |
| | | TLES10KK.3 | 102H4038 | | | | | | | | | 130 | 1.04 | | 172 | 148 | 1.35 | 1.15 | | |
| | | NLE8.8KK.4 | 105H6800 | 63 | 84 | 141 | 179 | 223 | | | | 110 | 1.18 | 1.22 | 147 | 127 | 1.51 | 1.30 | | |
| | 4. | NLE10KK.4 | 105H6867 | 74 | 98 | 164 | 207 | 257 | | | | 128 | 1.19 | 1.23 | 170 | 151 | 1.51 | 1.30 | | |
| | | NLE11KK.4 | 105H6952 | 82 | 109 | 184 | 232 | 290 | | | | 143 | 1.19 | 1.22 | 191 | 165 | 1.52 | 1.31 | | |
| | | NLE13KK.4 | 105H6959 | 99 | 131 | 217 | 274 | 340 | | | | 170 | 1.18 | 1.23 | 226 | 194 | 1.50 | 1.29 | | |
| | High Energy-optimized | 1. | NLE15KK.4 | 105H6968 | 110 | 146 | 243 | 307 | 382 | | | | 190 | 1.20 | 1.25 | 253 | 213 | 1.53 | 1.32 | |
| | | | 2. | TLY4 KK.3 | 102H4442 | 19 | 29 | 57 | 74 | 95 | | | | 42 | 0.96 | 0.99 | 57 | 49 | 1.26 | 1.08 |
| | | | | TLY4.8KK.3 | 102H4542 | 28 | 40 | 73 | 94 | 119 | | | | 55 | 1.04 | 1.06 | 74 | 65 | 1.35 | 1.16 |
| TLY5.7KK.3 | | 102H4642 | | 36 | 51 | 89 | 114 | 144 | | | | 68 | 1.03 | 1.06 | 91 | 79 | 1.33 | 1.15 | | |
| 3. | | TLY6.5KK.3 | 102H4742 | 46 | 62 | 106 | 135 | 170 | | | | 82 | 1.10 | 1.14 | 110 | 94 | 1.42 | 1.22 | | |
| | | TLY7.5KK.3 | 102H4842 | 53 | 71 | 122 | 155 | 194 | | | | 94 | 1.09 | 1.14 | 126 | 108 | 1.41 | 1.22 | | |
| | | TLY8.7KK.3 | 102H4942 | 65 | 86 | 144 | 182 | 227 | | | | 112 | 1.12 | 1.16 | 149 | 126 | 1.44 | 1.24 | | |
| 3. | | TLX4KK.3 | 102H4447 | 21 | 32 | 59 | 76 | 95 | | | | 45 | | 1.15*** | 60 | 52 | | | | |
| | | TLX4.8KK.3 | 102H4547 | 36 | 52 | 90 | 116 | 146 | | | | 57 | | 1.24*** | 76 | 65 | | | | |
| | | TLX5.7KK.3 | 102H4647 | 37 | 52 | 91 | 115 | 143 | | | | 70 | | 1.28*** | 93 | 80 | | | | |
| 3. | | TLX6.5KK.3 | 102H4747 | 46 | 63 | 106 | 133 | 165 | | | | 83 | | 1.30*** | 110 | 95 | | | | |
| | | TLX7.5KK.3 | 102H4847 | 55 | 75 | 125 | 157 | 195 | | | | 98 | | 1.32*** | 130 | 112 | | | | |
| | | TLX8.7KK.3 | 102H4947 | 65 | 88 | 146 | 184 | 227 | | | | 115 | | 1.31*** | 152 | 131 | | | | |
| 1. | | NLX8.8KK | 105H6874 | 60 | 83 | 144 | 182 | 227 | | | | 111 | | 1.35 | 148 | 127 | | | | |
| | | NLX10KK | 105H6871 | 74 | 100 | 169 | 215 | 269 | | | | 131 | | 1.36 | 174 | 150 | | | | |
| | NLX11KK | 105H6984 | 84 | 112 | 189 | 240 | 300 | | | | 147 | | 1.36 | 195 | 168 | | | | | |
| | NLX13KK | 105H6983 | 98 | 133 | 223 | 282 | 350 | | | | 174 | | 1.36 | 231 | 199 | | | | | |
| | NLX15KK | 105H6981 | 110 | 147 | 249 | 317 | 397 | | | | 193 | | 1.34 | 257 | 221 | | | | | |
| | NLX8.0KK.2 | 105H6010 | 52 | 73 | 130 | 167 | 210 | | | | 99 | | 1.47*** | 133 | 115 | | | | | |
| | NLX8.8KK.2 | 105H6011 | 62 | 85 | 147 | 187 | 234 | | | | 113 | | 1.49*** | 151 | 130 | | | | | |
| 2. | NLX10KK.2 | 105H6101 | 75 | 101 | 171 | 217 | 271 | | | | 133 | | 1.49*** | 178 | 153 | | | | | |
| | NLX11KK.2 | 105H6971 | 86 | 115 | 192 | 242 | 301 | | | | 150 | | 1.49*** | 200 | 172 | | | | | |

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Description

Product details

| | |
|--------------|----------|
| Gross weight | 12.47 kg |
| Net weight | 12.47 kg |
| Gross weight | 12.47 kg |

| | |
|-------------------|----------|
| Net weight | 12.47 kg |
|-------------------|----------|

| | |
|--|--------------------------|
| Application energy level | High Energy-optimized |
| Applications | LBP |
| Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm] | 31.8 Ohm |
| Base plate type | EU small |
| Brand technique | Reciprocating compressor |
| Capacity control | Fixed speed |
| Colour | Black |
| Compressor power supply [V/Ph/Hz] | 220-240/1/50 |
| Configuration code | Single |
| Cut in current LST [A] | 6.4 A |
| Description | NLX11KK.2 |
| Discharge connection angle [°] | 21 ° |
| Discharge connection comments | Al-cap |
| Discharge connection diameter [mm] | 5 mm |
| Discharge connection material | Cu-plated steel |
| Economizer | No |
| Free gas volume [cm3] | 2360 cm3 |
| Frequency [Hz] | 50 |
| Height from baseplate [mm] | 197 mm |
| High value of nominal voltage at 50Hz [V] | 240 V |
| High value of voltage range at 50Hz [V] | 255 V |
| Length [mm] | 252 mm |
| Liquid injection | No |

| | |
|---|-----------------------|
| Low value of nominal voltage at 50Hz [V] | 220 V |
| Low value of voltage range at 50Hz [V] | 187 V |
| LRA LST [A] | 3.5 A |
| Main winding resistance for single-phase compressors [Ohm] | 18.5 Ohm |
| Model number | NLX11KK.2 |
| Motor type | RSCR |
| No. of phases (compressor) | 1 |
| Oil quantity [cm³] | 270 cm ³ |
| Oil type | POE |
| Packing format | Industrial pack |
| Packing quantity | 80 |
| Process connection angle [°] | 25 ° |
| Process connection comments | Al-cap |
| Process connection diameter [mm] | 6.2 mm |
| Process connection material | Cu-plated steel |
| Refrigerant | R600a |
| Refrigerant charge [kg] [Max] | 0.15 kg |
| RLA | 0.70 A |
| Rotational speed at 50Hz [rpm] | 3000 rpm |
| Run capacitor capacitance | 2 µF |
| Segment usage | Refrigeration LT |
| Speed Platform | Fixed-speed |
| Suction connection angle [°] | 2 ° |
| Suction connection comments | Al-cap |
| Suction connection diameter [mm] | 6.2 mm |
| Suction connection material | Cu-plated steel |
| Swept volume [cm³] | 11.15 cm ³ |

| | |
|--|--------------------------|
| Technology | Reciprocating |
| Total height [mm] | 203 mm |
| Type | NL |
| Type designation | Compressor |
| Voltage 50Hz [V] | 220 V |
| Voltage 50Hz [V] [Max] | 240 V |
| Width [mm] | 166 mm |
| Winding temperature short term [°C] [Max] | 110 °C |
| Winding temperature stat [°C] [Max] | 95 °C |
| Application energy level | High Energy-optimized |
| Applications | LBP |
| Auxiliary winding resistance (start winding) for single-phase compressors alt [Ohm] | 31.8 Ohm |
| Base plate type | EU small |
| Brand technique | Reciprocating compressor |
| Capacity control | Fixed speed |
| Colour | Black |
| Compressor power supply [V/Ph/Hz] | 220-240/1/50 |
| Configuration code | Single |
| Cut in current LST [A] | 6.4 A |
| Description | NLX11KK.2 |
| Discharge connection angle [°] | 21 ° |
| Discharge connection comments | Al-cap |
| Discharge connection diameter [mm] | 5 mm |
| Discharge connection material | Cu-plated steel |
| Economizer | No |
| Free gas volume [cm3] | 2360 cm3 |
| Frequency [Hz] | 50 |

| | |
|---|---------------------|
| Height from baseplate [mm] | 197 mm |
| High value of nominal voltage at 50Hz [V] | 240 V |
| High value of voltage range at 50Hz [V] | 255 V |
| Length [mm] | 252 mm |
| Liquid injection | No |
| Low value of nominal voltage at 50Hz [V] | 220 V |
| Low value of voltage range at 50Hz [V] | 187 V |
| LRA LST [A] | 3.5 A |
| Main winding resistance for single-phase compressors [Ohm] | 18.5 Ohm |
| Model number | NLX11KK.2 |
| Motor type | RSCR |
| No. of phases (compressor) | 1 |
| Oil quantity [cm³] | 270 cm ³ |
| Oil type | P0E |
| Packing format | Industrial pack |
| Packing quantity | 80 |
| Process connection angle [°] | 25 ° |
| Process connection comments | Al-cap |
| Process connection diameter [mm] | 6.2 mm |
| Process connection material | Cu-plated steel |
| Refrigerant | R600a |
| Refrigerant charge [kg] [Max] | 0.15 kg |
| RLA | 0.70 A |
| Rotational speed at 50Hz [rpm] | 3000 rpm |
| Run capacitor capacitance | 2 µF |

| | |
|--|-----------------------|
| Segment usage | Refrigeration LT |
| Speed Platform | Fixed-speed |
| Suction connection angle [°] | 2 ° |
| Suction connection comments | Al-cap |
| Suction connection diameter [mm] | 6.2 mm |
| Suction connection material | Cu-plated steel |
| Swept volume [cm³] | 11.15 cm ³ |
| Technology | Reciprocating |
| Total height [mm] | 203 mm |
| Type | NL |
| Type designation | Compressor |
| Voltage 50Hz [V] | 220 V |
| Voltage 50Hz [V] [Max] | 240 V |
| Width [mm] | 166 mm |
| Winding temperature short term [°C] [Max] | 110 °C |
| Winding temperature stat [°C] [Max] | 95 °C |

Refrigerant: R600a, Segment usage: Refrigeration LT, Compressor power supply [V/Ph/Hz]: 220-240/1/50Mbsm_dot_pro_private_PDF_nlx11kk.2

| | | -35 | -30 | -20 | -15 | -10 | -5 | 0 | 5 | (W) | (W/W) | (W) | (W/W) | (W/W) | (W/W) |
|--|-----------|----------|-----|-----|-----|-----|-----|---|---|-----|---------|-----|-------|-------|-------|
| | PLE33K | 10240360 | | | | | | | | 27 | 0.68 | 36 | 33 | | |
| | TLE340K.3 | 10244430 | 19 | 29 | 57 | 75 | 96 | | | 42 | 0.90 | 57 | 69 | 1.18 | |
| | TLE340K.4 | 10244430 | 28 | 40 | 73 | 94 | 119 | | | 55 | 1.00 | 74 | 65 | 1.30 | |
| | TLE340K.3 | 10244430 | 36 | 50 | 89 | 114 | 144 | | | 68 | 1.02 | 91 | 79 | 1.52 | |
| | TLE340K.3 | 10244430 | 45 | 61 | 105 | 134 | 168 | | | 81 | 1.02 | 108 | 94 | 1.81 | |
| | TLE340K.3 | 10244430 | 53 | 71 | 122 | 155 | 194 | | | 94 | 1.02 | 126 | 108 | 2.14 | |
| | TLE340K.3 | 10244430 | 62 | 80 | 143 | 181 | 228 | | | 110 | 1.03 | 147 | 126 | 2.33 | 1.14 |
| | TLE340K.3 | 10244430 | | | | | | | | 130 | 1.04 | 172 | 148 | 2.55 | 1.15 |
| | TLE340K.4 | 10244430 | 62 | 84 | 140 | 179 | 223 | | | 110 | 1.18 | 147 | 127 | 2.51 | 1.20 |
| | TLE340K.4 | 10244430 | 74 | 99 | 164 | 207 | 257 | | | 128 | 1.19 | 170 | 151 | 2.57 | 1.30 |
| | TLE340K.4 | 10244430 | 82 | 108 | 184 | 232 | 290 | | | 143 | 1.19 | 181 | 165 | 2.52 | 1.31 |
| | TLE340K.4 | 10244430 | 99 | 137 | 217 | 274 | 340 | | | 170 | 1.18 | 226 | 194 | 2.50 | 1.29 |
| | TLE340K.4 | 10244430 | 110 | 146 | 243 | 307 | 382 | | | 190 | 1.20 | 251 | 219 | 2.53 | 1.32 |
| | TLY40K.3 | 10244442 | 19 | 29 | 57 | 74 | 95 | | | 42 | 0.96 | 57 | 69 | 1.26 | 1.08 |
| | TLY40K.3 | 10244442 | 28 | 40 | 73 | 94 | 119 | | | 55 | 1.04 | 74 | 65 | 1.35 | 1.16 |
| | TLY40K.3 | 10244442 | 36 | 51 | 89 | 114 | 144 | | | 68 | 1.03 | 91 | 79 | 1.53 | 1.15 |
| | TLY40K.3 | 10244442 | 46 | 62 | 106 | 135 | 170 | | | 82 | 1.10 | 110 | 94 | 1.42 | 1.22 |
| | TLY40K.3 | 10244442 | 53 | 71 | 122 | 155 | 194 | | | 94 | 1.09 | 126 | 108 | 1.41 | 1.22 |
| | TLY40K.3 | 10244442 | 65 | 86 | 144 | 182 | 227 | | | 112 | 1.12 | 149 | 126 | 1.44 | 1.24 |
| | TLE40K.3 | 10244447 | 21 | 32 | 59 | 76 | 95 | | | 45 | 1.10*** | 60 | 52 | | |
| | TLE40K.3 | 10244447 | 36 | 52 | 90 | 116 | 146 | | | 57 | 1.20*** | 76 | 65 | | |
| | TLE40K.3 | 10244447 | 57 | 82 | 131 | 163 | 203 | | | 70 | 1.20*** | 93 | 80 | | |
| | TLE40K.3 | 10244447 | 66 | 93 | 150 | 193 | 245 | | | 83 | 1.20*** | 110 | 95 | | |
| | TLE40K.3 | 10244447 | 55 | 75 | 125 | 157 | 195 | | | 98 | 1.32*** | 130 | 112 | | |
| | TLE40K.3 | 10244447 | 65 | 88 | 146 | 184 | 227 | | | 115 | 1.30*** | 152 | 131 | | |
| | TLE40K.3 | 10244447 | 60 | 83 | 144 | 182 | 227 | | | 111 | 1.35 | 140 | 127 | | |
| | TLE40K.3 | 10244447 | 74 | 100 | 169 | 215 | 269 | | | 131 | 1.36 | 174 | 150 | | |
| | TLE40K.3 | 10244447 | 84 | 112 | 189 | 240 | 300 | | | 147 | 1.36 | 195 | 168 | | |
| | TLE40K.3 | 10244447 | 98 | 133 | 223 | 282 | 350 | | | 174 | 1.36 | 231 | 199 | | |
| | TLE40K.3 | 10244447 | 110 | 147 | 249 | 317 | 397 | | | 193 | 1.34 | 257 | 221 | | |
| | TLE40K.3 | 10244447 | 52 | 73 | 130 | 167 | 210 | | | 99 | 1.40*** | 133 | 115 | | |
| | TLE40K.3 | 10244447 | 62 | 85 | 147 | 187 | 234 | | | 113 | 1.40*** | 151 | 130 | | |
| | TLE40K.3 | 10244447 | 75 | 101 | 175 | 227 | 271 | | | 133 | 1.40*** | 176 | 153 | | |
| | TLE40K.3 | 10244447 | 86 | 115 | 192 | 242 | 301 | | | 150 | 1.40*** | 200 | 172 | | |