

## Model

|             |                |                  |             |                 |
|-------------|----------------|------------------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | 220-240V/50Hz 1~ | Sales code: | <b>105H6175</b> |
|-------------|----------------|------------------|-------------|-----------------|

## Compressor design

|                            |                                 |                       |                                  |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type                   | Polyolester                     | Refrigerant(s)        | <b>R290</b>                      |
| Oil viscosity              | 32cST                           | Displacement          | 10,09cm <sup>3</sup> / 0,62cu.in |
| Oil quantity               | 268cm <sup>3</sup> / 9,1fl.oz   | Compressors on pallet | 80                               |
| Refr. charge - tech. limit | 400g / 14,1oz                   |                       |                                  |
| Free gas volume comp.      | 2360cm <sup>3</sup> / 79,8fl.oz |                       |                                  |
| Weight                     | 10,9kg / 24lbs                  |                       |                                  |
| Motor protection           | 1# internal                     |                       |                                  |
| Winding resistance main    | 7,79Ω (at 25°C)                 |                       |                                  |
| Winding resistance aux     | 18,39Ω (at 25°C)                |                       |                                  |
| Max. winding temp.         | 125°C / 257°F                   |                       |                                  |
| Max. discharge temp.       | 120°C / 248°F                   |                       |                                  |



## General - Configurations with NLE10CN

|                        | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> |
|------------------------|----------------|----------------|----------------|
| Motorconfiguration     | CSIR           | RSIR           | RSCR           |
| Power supply (nominal) | 220-240V/50Hz  | 220-240V/50Hz  | 220-240V/50Hz  |
| Number of phases       | 1              | 1              | 1              |
| Voltage range          | 198-254V       | 198-254V       | 198-254V       |
| Approvals              | VDE, CCC, EAC  | VDE, CCC, EAC  | VDE, CCC, EAC  |
| Starting torque        | HST            | LST            | LST            |
| Note                   | - / -          |                |                |

## Applications with NLE10CN

|                         | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> |
|-------------------------|----------------|----------------|----------------|
| Refrigerant             | R290           | R290           | R290           |
| Application             | LBP+MBP        | LBP+MBP        | LBP+MBP        |
| System cooling          | fan 3m/s       | fan 3m/s       | fan 3m/s       |
| Hot gas defrost         | OK             | OK             | OK             |
| Long interval pull down | OK             | OK             | OK             |

## Electrical data - Configurations with NLE10CN

|                              | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> |
|------------------------------|----------------|----------------|----------------|
| Starting device type         | relay          | PTC            | PTC            |
| Run capacitor                | -/-            | -/-            | 4μF            |
| Start capacitor              | 80μF           | -/-            | -/-            |
| LRA (locked rotor amps / 4s) | 12,25A         | 10,9A          | 12,25A         |
| RLA (rated load amps / 1s)   | 2,58A          | 2,58A          | 2,27A          |
| Cut in current               | 12,25A         | 15,8A          | 12,25A         |

## Model

Designation

**NLE10CN**

220-240V/50Hz 1~

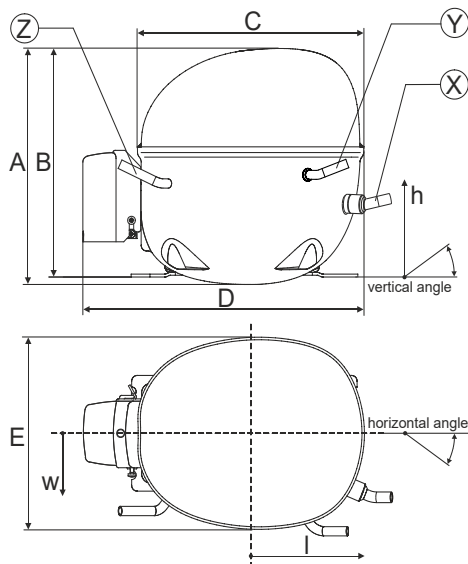
Sales code:

**105H6175**

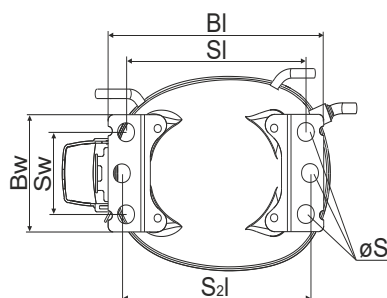
## Compressor dimensions

| Housing | A Height          | 203mm / 7,99in |
|---------|-------------------|----------------|
|         | B Height          | 197mm / 7,76in |
|         | C Length shell    | 205mm / 8,07in |
|         | D Length w. cover | 254mm / 10in   |
|         | E Width           | 166mm / 6,54in |

| Connectors       |                            | Suction      | Discharge    | Process      |
|------------------|----------------------------|--------------|--------------|--------------|
|                  |                            | X            | Y            | Z            |
| Diameter         | [mm]                       | øi 8,11-8,29 | øi 6,11-6,29 | øi 6,11-6,29 |
|                  | (i:inside, o:outside) [in] | øi 0,32-0,33 | øi 0,24-0,25 | øi 0,24-0,25 |
| Material         |                            | copper       | copper       | copper       |
| Horizontal angle | ±2°                        | 0°           | 0°           | 0°           |
| Vertical angle   | ±2°                        | 15°          | 21°          | 155°         |
| Position l/h/w   | [mm]                       | 132/69/57    | 94/102/81    | -109/94/72   |
|                  | [in]                       | 5,2/2,7/2,2  | 3,7/4/3,2    | -4,3/3,7/2,8 |
| Straight tube l. | [mm]                       | 12           | 12           | 12           |
|                  | [in]                       | 0,5          | 0,5          | 0,5          |

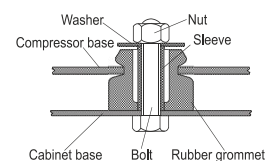


## Compressor fixation

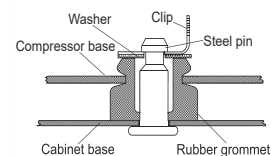


| Baseplate   | [mm] | [inch] |
|-------------|------|--------|
| BI          | 204  | 8.03   |
| BW          | 100  | 3.94   |
| Small holes | [mm] | [inch] |
| SI          | 170  | 6.7    |
| SW          | 70   | 2.76   |
| S2l         | 178  | 7      |
| øS          | ø 16 | ø 0.63 |

### Bolt joint



### Snap-on



## Mounting accessories

|                            | one comp. | multi pack |
|----------------------------|-----------|------------|
| Bolt joint   M6   ø16mm    | 118-1917  | 118-1918   |
| Bolt joint   ø1/4"   ø16mm | 118-1946  |            |
| Snap-on   ø7,3   ø16mm     | 118-1947  | 118-1919   |

## Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

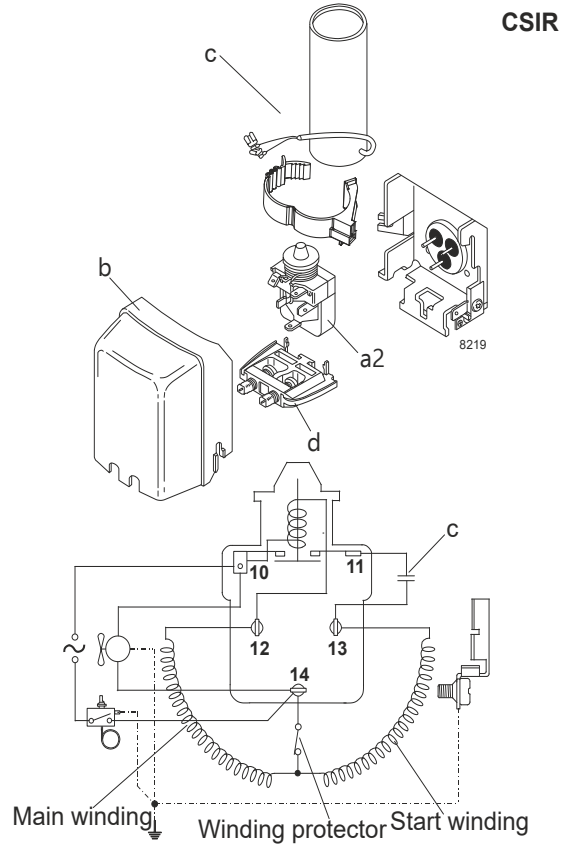
### Model

|             |                |                      |         |             |                 |
|-------------|----------------|----------------------|---------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | Conf. 1 | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|---------|-------------|-----------------|

### Configuration

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | CSIR             |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R290             |
| Application            | LBP+MBP          |
| Voltage range          | 198-254V         |
| Starting torque        | HST              |
| Approvals              | VDE (2)          |
| (1): Made in China     | CCC (1),(2)      |
| (2): Made in Slovakia  | EAC (1),(2)      |

### Electrical accessories / wiring diagram



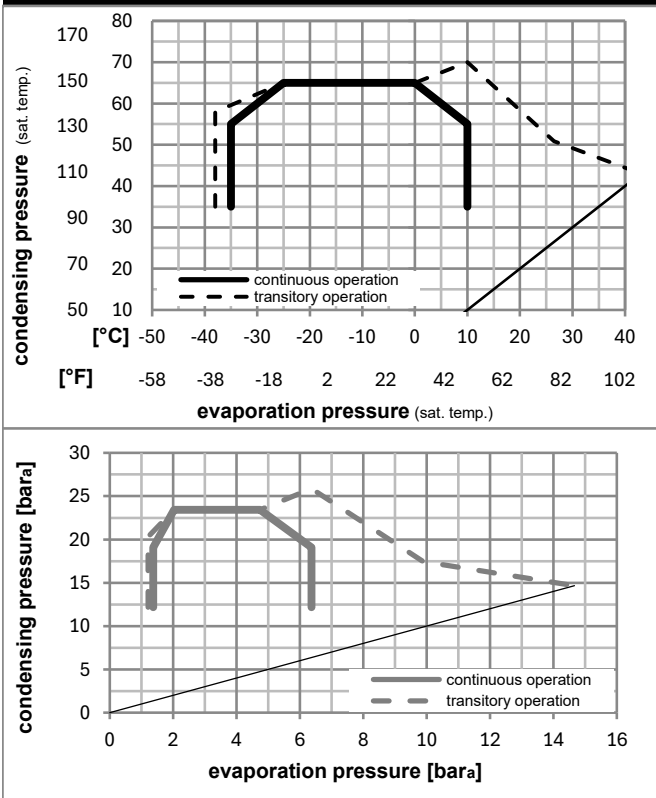
### Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

### Operation pressure range



### Components

|    |                        |          |
|----|------------------------|----------|
| a2 | relay                  | 117U7002 |
| c  | start capacitor (80µF) | 117U5015 |
| b  | plastic cover          | 103N2010 |
| d  | cord relief            | 103N1010 |

### Alternative components

|   |               |          |
|---|---------------|----------|
| b | plastic cover | 103N2011 |
|---|---------------|----------|

## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | <b>Conf. 1</b> | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

|  | Evaporating pressure (saturation temperature) |      |      |      | Cooling capacity |         |          | COP   | EER      | P1        | Power consumption |      | ASHRAE LBP |             |
|--|---|------|------|------|------------------|---------|----------|-------|----------|-----------|-------------------|------|------------|-------------|
|  | pe  | pc   | RGT  | Tliq | [W]              | [Btu/h] | [kcal/h] |       |          |           | I                 | m    |            |             |
|  | [°C]  | [°F] | [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]               | [A]  | [kg/h]     |             |
|  | -23   | 54   | 32   | 32   | 485,4            | 1658    | 417,7    | 1,47  | 5,00     | 1,26      | 331,3             | 2,15 | 4,92       | ASHRAE LBP  |
|  | -10   | 130  | 90   | 90   |                  |         |          |       |          |           |                   |      |            |             |
|  | -25   | 55   | 32   | 55   | 362,5            | 1238    | 312,0    | 1,14  | 3,88     | 0,98      | 318,8             | 2,11 | 4,51       | cecomaf LBP |
|  | -13   | 131  | 90   | 131  |                  |         |          |       |          |           |                   |      |            |             |
|  | -35   | 40   | 20   | 40   | 285,5            | 975     | 245,7    | 1,23  | 4,21     | 1,06      | 231,7             | 1,87 | 3,26       | EN12900 LBP |
|  | -31   | 104  | 68   | 104  |                  |         |          |       |          |           |                   |      |            |             |
|  | -7  | 54   | 35   | 46   | 873,2            | 2982    | 751,5    | 1,89  | 6,44     | 1,62      | 462,7             | 2,62 | 9,96       | ASHRAE MBP  |
|  | 20  | 130  | 95   | 115  |                  |         |          |       |          |           |                   |      |            |             |
|  | -10   | 55   | 32   | 55   | 693,0            | 2367    | 596,4    | 1,58  | 5,39     | 1,36      | 439,1             | 2,53 | 8,77       | cecomaf MBP |
|  | 14  | 131  | 90   | 131  |                  |         |          |       |          |           |                   |      |            |             |
|  | -10   | 45   | 20   | 45   | 781,1            | 2667    | 672,2    | 1,96  | 6,70     | 1,69      | 398,0             | 2,39 | 9,59       | EN12900 MBP |
|  | 14  | 113  | 68   | 113  |                  |         |          |       |          |           |                   |      |            |             |

## Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

|                  | pe   |      | Cooling capacity |         |          | COP  | EER      |           | P1    | I    | m     |
|------------------|------|------|------------------|---------|----------|------|----------|-----------|-------|------|-------|
|                  | [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] |      | [Btu/Wh] | [kcal/Wh] |       |      |       |
| [°C / °F]        | -35  | -31  | 274,0            | 936     | 235,8    | 1,16 | 3,96     | 1,00      | 236,0 | 1,89 | 3,07  |
| cond. pressure   | -25  | -13  | 436,9            | 1492    | 376,0    | 1,45 | 4,94     | 1,25      | 301,9 | 2,06 | 4,93  |
| pc= 45/113       | -15  | 5    | 668,8            | 2284    | 575,6    | 1,82 | 6,21     | 1,57      | 367,6 | 2,28 | 7,61  |
| return gas temp. | -10  | 14   | 813,1            | 2777    | 699,8    | 2,04 | 6,98     | 1,76      | 398,0 | 2,39 | 9,30  |
| RGT= 32/90       | 0    | 32   | 1163,7           | 3974    | 1001,5   | 2,59 | 8,85     | 2,23      | 449,2 | 2,58 | 13,50 |
| liquid temp      | 5    | 41   | 1371,8           | 4685    | 1180,6   | 2,93 | 10,01    | 2,52      | 468,2 | 2,65 | 16,05 |
| Tliq= 45/113     | 10   | 50   | 1603,3           | 5475    | 1379,8   | 3,33 | 11,37    | 2,87      | 481,5 | 2,70 | 18,95 |
| [°C / °F]        | -35  | -31  | 215,5            | 736     | 185,4    | 0,88 | 3,01     | 0,76      | 244,6 | 1,91 | 2,66  |
| cond. pressure   | -25  | -13  | 362,5            | 1238    | 312,0    | 1,14 | 3,88     | 0,98      | 318,8 | 2,11 | 4,51  |
| pc= 55/131       | -15  | 5    | 566,9            | 1936    | 487,9    | 1,42 | 4,85     | 1,22      | 399,1 | 2,38 | 7,13  |
| return gas temp  | -10  | 14   | 693,0            | 2367    | 596,4    | 1,58 | 5,39     | 1,36      | 439,1 | 2,53 | 8,77  |
| RGT= 32/90       | 0    | 32   | 998,3            | 3409    | 859,2    | 1,94 | 6,63     | 1,67      | 514,5 | 2,82 | 12,82 |
| liquid temp      | 5    | 41   | 1179,4           | 4028    | 1015,0   | 2,15 | 7,35     | 1,85      | 547,9 | 2,96 | 15,29 |
| Tliq= 55/131     | 10   | 50   | 1380,9           | 4716    | 1188,4   | 2,39 | 8,17     | 2,06      | 577,2 | 3,09 | 18,11 |

## Model

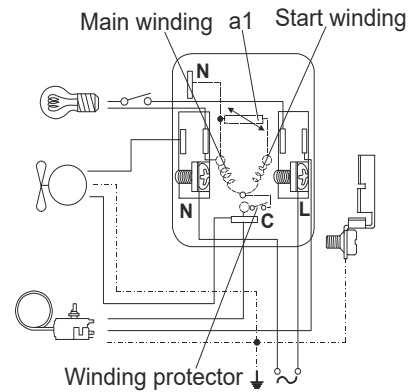
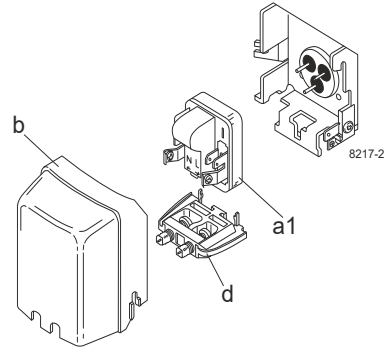
|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | <b>Conf. 2</b> | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | RSIR             |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R290             |
| Application            | LBP+MBP          |
| Voltage range          | 198-254V         |
| Starting torque        | LST              |
| Approvals              | VDE (2)          |
| (1): Made in China     | CCC (1),(2)      |
| (2): Made in Slovakia  | EAC (1),(2)      |

## Electrical accessories / wiring diagram

RSIR



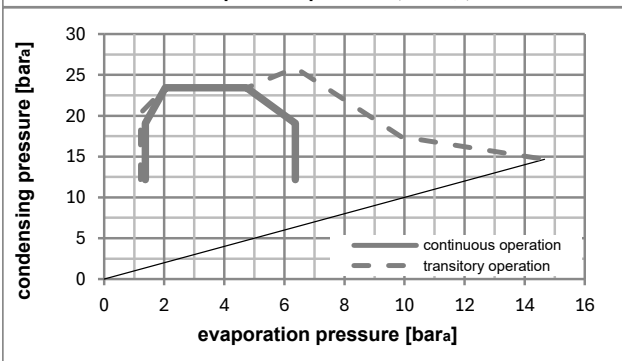
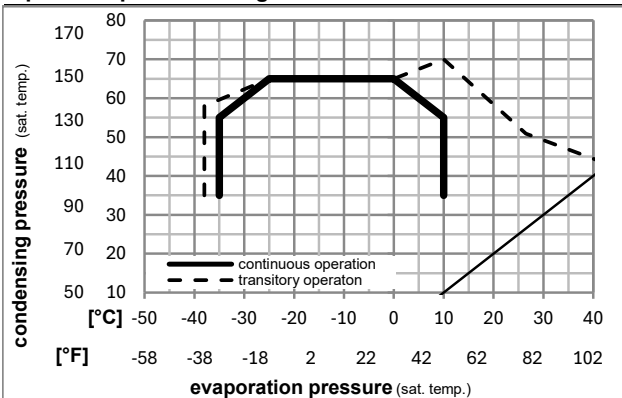
## Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

## Operation pressure range



## Components

|    |                                    |          |
|----|------------------------------------|----------|
| a1 | e-PTC starter (220V, 25Ohm, 4.8mm) | 103N0050 |
| b  | plastic cover                      | 103N2010 |
| d  | cord relief                        | 103N1010 |

## Alternative components

|   |               |          |
|---|---------------|----------|
| b | plastic cover | 103N2011 |
|---|---------------|----------|

## Model

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| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | <b>Conf. 2</b> | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Optimization + standard conditions

R290, 220V/50Hz, RSIR, fan 3m/s, VDE, CCC, EAC

|      |     | Evaporating pressure (saturation temperature) |    |     |       | Cooling capacity |         |          | COP   | EER      | Power consumption   |      |                |             |  |
|------|-----|---|----|-----|-------|------------------|---------|----------|-------|----------|---------------------|------|----------------|-------------|--|
|      |     | Condensing pressure (saturation temperature)  |    |     |       | Return gas temp. |         |          |       |          | Current consumption |      | Ref. mass flow |             |  |
|      |     | Liquid temp.                                  |    |     |       | Cooling capacity |         |          |       |          | P1                  | I    | m              |             |  |
|      |     | pe  | pc | RGT | Tliq  | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh]           | [W]  | [A]            | [kg/h]      |  |
| [°C] | -23 | 54  | 32 | 32  | 485,4 | 1658             | 417,7   | 1,47     | 5,00  | 1,26     | 331,3               | 2,15 | 4,92           | ASHRAE LBP  |  |
| [°F] | -10 | 130   | 90 | 90  |       |                  |         |          |       |          |                     |      |                |             |  |
| [°C] | -25 | 55  | 32 | 55  | 362,5 | 1238             | 312,0   | 1,14     | 3,88  | 0,98     | 318,8               | 2,11 | 4,51           | cecomaf LBP |  |
| [°F] | -13 | 131   | 90 | 131 |       |                  |         |          |       |          |                     |      |                |             |  |
| [°C] | -35 | 40  | 20 | 40  | 285,5 | 975              | 245,7   | 1,23     | 4,21  | 1,06     | 231,7               | 1,87 | 3,26           | EN12900 LBP |  |
| [°F] | -31 | 104   | 68 | 104 |       |                  |         |          |       |          |                     |      |                |             |  |
| [°C] | -7  | 54  | 35 | 46  | 873,2 | 2982             | 751,5   | 1,89     | 6,44  | 1,62     | 462,7               | 2,62 | 9,96           | ASHRAE MBP  |  |
| [°F] | 20  | 130   | 95 | 115 |       |                  |         |          |       |          |                     |      |                |             |  |
| [°C] | -10 | 55  | 32 | 55  | 693,0 | 2367             | 596,4   | 1,58     | 5,39  | 1,36     | 439,1               | 2,53 | 8,77           | cecomaf MBP |  |
| [°F] | 14  | 131   | 90 | 131 |       |                  |         |          |       |          |                     |      |                |             |  |
| [°C] | -10 | 45  | 20 | 45  | 781,1 | 2667             | 672,2   | 1,96     | 6,70  | 1,69     | 398,0               | 2,39 | 9,59           | EN12900 MBP |  |
| [°F] | 14  | 113   | 68 | 113 |       |                  |         |          |       |          |                     |      |                |             |  |

## Performance tables

R290, 220V/50Hz, RSIR, fan 3m/s, VDE, CCC, EAC

|                  | pe   |      | Cooling capacity |         |          | COP   | EER      | P1        |       |      | I      | m |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|-------|------|--------|---|
|                  | [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]   | [A]  | [kg/h] |   |
| [°C / °F]        | -35  | -31  | 274,0            | 936     | 235,8    | 1,16  | 3,96     | 1,00      | 236,0 | 1,89 | 3,07   |   |
| cond. pressure   | -25  | -13  | 436,9            | 1492    | 376,0    | 1,45  | 4,94     | 1,25      | 301,9 | 2,06 | 4,93   |   |
| pc= 45/113       | -15  | 5    | 668,8            | 2284    | 575,6    | 1,82  | 6,21     | 1,57      | 367,6 | 2,28 | 7,61   |   |
| return gas temp. | -10  | 14   | 813,1            | 2777    | 699,8    | 2,04  | 6,98     | 1,76      | 398,0 | 2,39 | 9,30   |   |
| RGT= 32/90       | 0    | 32   | 1163,7           | 3974    | 1001,5   | 2,59  | 8,85     | 2,23      | 449,2 | 2,58 | 13,50  |   |
| liquid temp      | 5    | 41   | 1371,8           | 4685    | 1180,6   | 2,93  | 10,01    | 2,52      | 468,2 | 2,65 | 16,05  |   |
| Tliq= 45/113     | 10   | 50   | 1603,3           | 5475    | 1379,8   | 3,33  | 11,37    | 2,87      | 481,5 | 2,70 | 18,95  |   |
| [°C / °F]        | -35  | -31  | 215,5            | 736     | 185,4    | 0,88  | 3,01     | 0,76      | 244,6 | 1,91 | 2,66   |   |
| cond. pressure   | -25  | -13  | 362,5            | 1238    | 312,0    | 1,14  | 3,88     | 0,98      | 318,8 | 2,11 | 4,51   |   |
| pc= 55/131       | -15  | 5    | 566,9            | 1936    | 487,9    | 1,42  | 4,85     | 1,22      | 399,1 | 2,38 | 7,13   |   |
| return gas temp  | -10  | 14   | 693,0            | 2367    | 596,4    | 1,58  | 5,39     | 1,36      | 439,1 | 2,53 | 8,77   |   |
| RGT= 32/90       | 0    | 32   | 998,3            | 3409    | 859,2    | 1,94  | 6,63     | 1,67      | 514,5 | 2,82 | 12,82  |   |
| liquid temp      | 5    | 41   | 1179,4           | 4028    | 1015,0   | 2,15  | 7,35     | 1,85      | 547,9 | 2,96 | 15,29  |   |
| Tliq= 55/131     | 10   | 50   | 1380,9           | 4716    | 1188,4   | 2,39  | 8,17     | 2,06      | 577,2 | 3,09 | 18,11  |   |

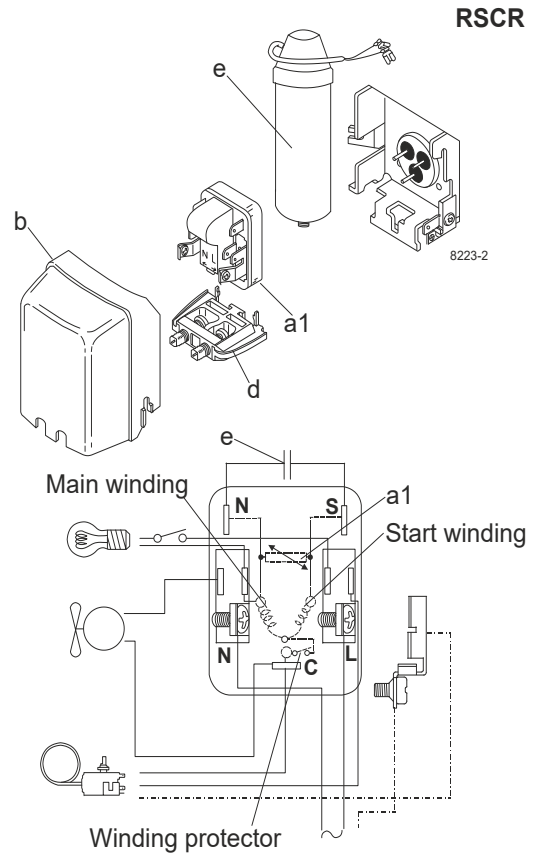
## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | <b>Conf. 3</b> | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                    |
|------------------------|--------------------|
| Motorconfiguration     | RSCR               |
| Power supply (nominal) | 220-240V/50Hz 1~   |
| Refrigerant            | R290               |
| Application            | LBP+MBP            |
| Voltage range          | 198-254V           |
| Starting torque        | LST                |
| Approvals              | VDE (2)            |
|                        | (1): Made in China |
|                        | CCC (1),(2)        |
|                        | EAC (1),(2)        |

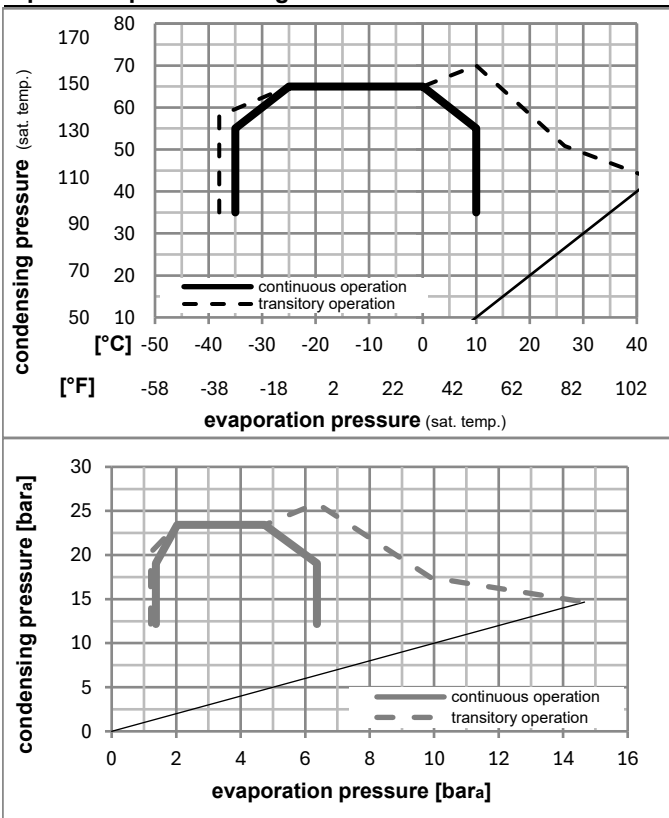
## Electrical accessories / wiring diagram



## Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| Ambient temperature range:      | 10 - 43°C / 50 - 110°F |
| Machine room temperature range: | 10 - 48°C / 50 - 119°F |
| Compressor cooling:             | fan 3m/s               |

## Operation pressure range



## Components

|    |                                    |          |
|----|------------------------------------|----------|
| a1 | e-PTC starter (220V, 250hm, 4.8mm) | 103N0050 |
| e  | run capacitor (4μF, 4.8mm)         | 117-7119 |
| b  | plastic cover                      | 103N2010 |
| d  | cord relief                        | 103N1010 |
|    | bracket for run capacitor          | 117-0300 |
|    | screw M4x8mm                       | 117-0301 |

## Alternative components

|   |               |          |
|---|---------------|----------|
| b | plastic cover | 103N2011 |
|---|---------------|----------|

### Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>NLE10CN</b> | <b>220-240V/50Hz</b> | <b>Conf. 3</b> | Sales code: | <b>105H6175</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

### Optimization + standard conditions

R290, 220V/50Hz, RSCR, fan 3m/s, VDE, CCC, EAC

|  | Evaporating pressure (saturation temperature) |      |      |      | Cooling capacity |         |          | COP   | EER      | P1        | Power consumption |      | ASHRAE LBP |             |
|--|---|------|------|------|------------------|---------|----------|-------|----------|-----------|-------------------|------|------------|-------------|
|  | pe  | pc   | RGT  | Tliq | [W]              | [Btu/h] | [kcal/h] |       |          |           | I                 | m    |            |             |
|  | [°C]  | [°F] | [°C] | [°C] |                  |         |          | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]               | [A]  | [kg/h]     |             |
|  | -23   | 54   | 32   | 32   | 490,2            | 1674    | 421,9    | 1,54  | 5,24     | 1,32      | 319,3             | 1,88 | 4,96       | ASHRAE LBP  |
|  | -10   | 130  | 90   | 90   |                  |         |          |       |          |           |                   |      |            |             |
|  | -25   | 55   | 32   | 55   | 366,2            | 1251    | 315,1    | 1,19  | 4,07     | 1,03      | 307,3             | 1,84 | 4,56       | cecomaf LBP |
|  | -13   | 131  | 90   | 131  |                  |         |          |       |          |           |                   |      |            |             |
|  | -35   | 40   | 20   | 40   | 288,3            | 985     | 248,1    | 1,27  | 4,33     | 1,09      | 227,4             | 1,43 | 3,29       | EN12900 LBP |
|  | -31   | 104  | 68   | 104  |                  |         |          |       |          |           |                   |      |            |             |
|  | -7  | 54   | 35   | 46   | 881,9            | 3012    | 759,0    | 1,99  | 6,79     | 1,71      | 443,7             | 2,30 | 10,06      | ASHRAE MBP  |
|  | 20  | 130  | 95   | 115  |                  |         |          |       |          |           |                   |      |            |             |
|  | -10   | 55   | 32   | 55   | 700,0            | 2391    | 602,4    | 1,66  | 5,67     | 1,43      | 421,4             | 2,22 | 8,85       | cecomaf MBP |
|  | 14  | 131  | 90   | 131  |                  |         |          |       |          |           |                   |      |            |             |
|  | -10   | 45   | 20   | 45   | 788,9            | 2694    | 678,9    | 2,06  | 7,03     | 1,77      | 383,5             | 2,03 | 9,69       | EN12900 MBP |
|  | 14  | 113  | 68   | 113  |                  |         |          |       |          |           |                   |      |            |             |

### Performance tables

R290, 220V/50Hz, RSCR, fan 3m/s, VDE, CCC, EAC

|                  | pe   |      | Cooling capacity |         |          | COP  | EER   | P1   | I     | m    |       |
|------------------|------|------|------------------|---------|----------|------|-------|------|-------|------|-------|
|                  | [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] |      |       |      |       |      |       |
| [°C / °F]        | -35  | -31  | 276,7            | 945     | 238,2    | 1,20 | 4,08  | 1,03 | 231,6 | 1,46 | 3,10  |
| cond. pressure   | -25  | -13  | 441,2            | 1507    | 379,7    | 1,51 | 5,14  | 1,30 | 293,1 | 1,72 | 4,98  |
| pc= 45/113       | -15  | 5    | 675,5            | 2307    | 581,3    | 1,90 | 6,50  | 1,64 | 354,8 | 1,94 | 7,68  |
| return gas temp. | -10  | 14   | 821,3            | 2805    | 706,8    | 2,14 | 7,31  | 1,84 | 383,5 | 2,03 | 9,40  |
| RGT= 32/90       | 0    | 32   | 1175,3           | 4014    | 1011,5   | 2,72 | 9,29  | 2,34 | 432,2 | 2,19 | 13,63 |
| liquid temp      | 5    | 41   | 1385,5           | 4732    | 1192,4   | 3,08 | 10,51 | 2,65 | 450,4 | 2,24 | 16,21 |
| Tliq= 45/113     | 10   | 50   | 1619,3           | 5530    | 1393,6   | 3,49 | 11,94 | 3,01 | 463,3 | 2,29 | 19,13 |
| [°C / °F]        | -35  | -31  | 217,6            | 743     | 187,3    | 0,92 | 3,15  | 0,79 | 236,0 | 1,59 | 2,69  |
| cond. pressure   | -25  | -13  | 366,2            | 1251    | 315,1    | 1,19 | 4,07  | 1,03 | 307,3 | 1,84 | 4,56  |
| pc= 55/131       | -15  | 5    | 572,6            | 1955    | 492,8    | 1,49 | 5,10  | 1,28 | 383,6 | 2,10 | 7,20  |
| return gas temp  | -10  | 14   | 700,0            | 2391    | 602,4    | 1,66 | 5,67  | 1,43 | 421,4 | 2,22 | 8,85  |
| RGT= 32/90       | 0    | 32   | 1008,3           | 3444    | 867,7    | 2,05 | 7,00  | 1,76 | 491,8 | 2,47 | 12,95 |
| liquid temp      | 5    | 41   | 1191,2           | 4068    | 1025,2   | 2,28 | 7,78  | 1,96 | 522,6 | 2,59 | 15,45 |
| Tliq= 55/131     | 10   | 50   | 1394,7           | 4763    | 1200,3   | 2,54 | 8,67  | 2,18 | 549,4 | 2,71 | 18,29 |