

## Single Pack NLE13MNDX 220-240V 50Hz CSCR

Single pack code number: **195B4833**

| Position | Title                                      | Code     | Amount |
|----------|--------------------------------------------|----------|--------|
| 1        | Compressor NLE13MNDX                       | 105H7302 | 1      |
| 2        | Start equipment NLE                        | 117U8201 | 1      |
| 3        | Starting capacitor (80µF 260V)             | 117U5353 | 1      |
| 4        | Run Capacitor (10µF 450V, 6.3mm)           | 117-7166 | 1      |
| 5        | Run capacitor bracket                      | 117-0314 | 1      |
| 6        | Cover NLE                                  | 117U1038 | 1      |
| 7        | Cord relief                                | 103N1007 | 1      |
| 8        | Screw for bracket M4x8mm                   | 117-0301 | 1      |
| 9        | Bolt joint for one compressor   M6   ø16mm | 118-1917 | 1      |

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## Model

|             |                  |                         |             |                 |
|-------------|------------------|-------------------------|-------------|-----------------|
| Designation | <b>NLE13MNDX</b> | <b>220-240V/50Hz 1~</b> | Sales code: | <b>105H7302</b> |
|-------------|------------------|-------------------------|-------------|-----------------|

## Compressor design

|                            |                                 |                       |                                 |
|----------------------------|---------------------------------|-----------------------|---------------------------------|
| Oil type                   | Polyolester                     | Refrigerant(s)        | <b>R290</b>                     |
| Oil viscosity              | 32cSt                           | Displacement          | 12,6cm <sup>3</sup> / 0,77cu.in |
| Oil quantity               | 298cm <sup>3</sup> / 10,1fl.oz  | Compressors on pallet |                                 |
| Refr. charge - tech. limit | 300g / 10,6oz                   |                       |                                 |
| Free gas volume comp.      | 2360cm <sup>3</sup> / 79,8fl.oz |                       |                                 |
| Weight                     | 11,8kg / 26lbs                  |                       |                                 |
| Motor protection           | external                        |                       |                                 |
| Winding resistance main    | 7,5Ω (at 25°C)                  |                       |                                 |
| Winding resistance aux     | 12,9Ω (at 25°C)                 |                       |                                 |
| Max. winding temp.         | 125°C / 257°F                   |                       |                                 |
| Max. discharge temp.       | 130°C / 266°F                   |                       |                                 |



## General - Configurations with NLE13MNDX

|                        |                |
|------------------------|----------------|
|                        | <b>Conf. 1</b> |
| Motor configuration    | CSCR           |
| Power supply (nominal) | 220-240V/50Hz  |
| Number of phases       | 1              |
| Voltage range          | 198-254V       |
| Approvals              | VDE            |
| Starting torque        | HST            |
| Note                   | - / -          |

## Applications with NLE13MNDX

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

## Electrical data - Configurations with NLE13MNDX

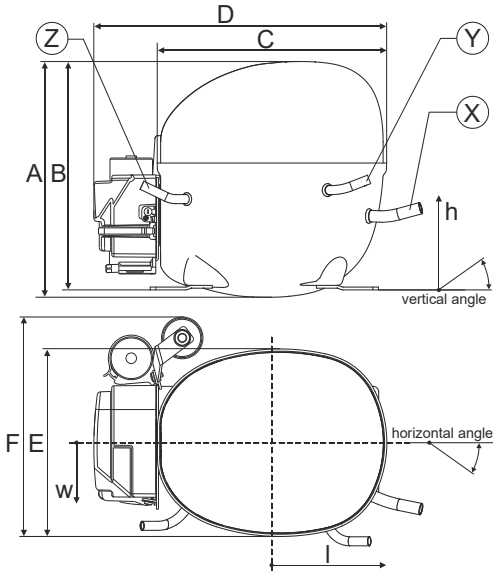
|                                    |                |
|------------------------------------|----------------|
|                                    | <b>Conf. 1</b> |
| Starting device type               | relay          |
| Run capacitor                      | 10μF           |
| Start capacitor                    | 80μF           |
| LRA (locked rotor amps / 4s/ U(N)) | 16,7A          |
| RLA (rated load amps / 1s/ U(N))   | 2,2A           |
| Cut in current (U(N))              | 16,7A          |

|             |           |                  |                      |
|-------------|-----------|------------------|----------------------|
| Model       |           |                  |                      |
| Designation | NLE13MNDX | 220-240V/50Hz 1~ | Sales code: 105H7302 |

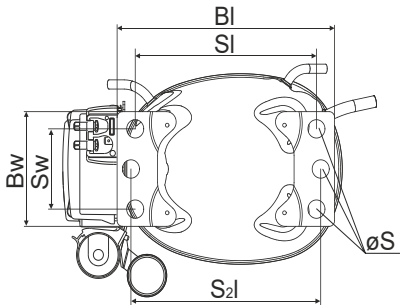
Compressor dimensions

|         |                   |                 |
|---------|-------------------|-----------------|
| Housing | A Height          | 209mm / 8,23in  |
|         | B Height          | 203mm / 7,99in  |
|         | C Length shell    | 205mm / 8,07in  |
|         | D Length w. cover | 262mm / 10,31in |
|         | E Width           | 166mm / 6,54in  |

| Connectors                 | Suction<br>X     | Discharge<br>Y | Process<br>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° 11°          | 0°             | 0°           |
| Vertical angle             | ±2° 15°          | 21°            | 25°          |
| Position l/h/w [mm]        | 140/72/59        | 94/98/87       | -109/93/74   |
|                            | [in] 5,5/2,8/2,3 | 3,7/3,9/3,4    | -4,3/3,7/2,9 |
| Straight tube l.           | [mm] 12          | 12             | 12           |
|                            | [in] 0,5         | 0,5            | 0,5          |

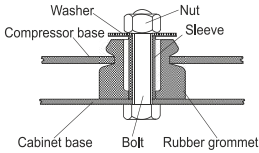


Compressor fixation

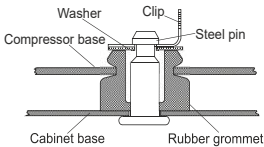


| Baseplate   | [mm] | [inch] |
|-------------|------|--------|
| BI          | 204  | 8.03   |
| Bw          | 100  | 3.94   |
| Small holes | [mm] | [inch] |
| SI          | 170  | 6.7    |
| Sw          | 70   | 2.76   |
| S2l         | 178  | 7      |
| øS          | ø 16 | ø 0.63 |

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

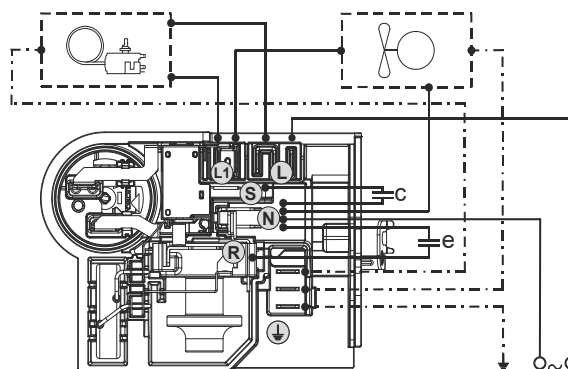
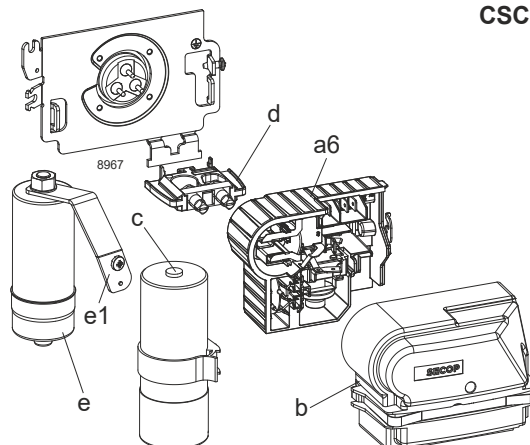
Designation **NLE13MNDX** **220-240V/50Hz** Conf. 1 Sales code: **105H7302**

## Configuration

Motor configuration CSCR  
Power supply (nominal) 220-240V/50Hz 1~  
Refrigerant R290  
Application MBP  
Voltage range 198-254V  
Starting torque HST  
Approvals VDE

## Electrical accessories / wiring diagram

CSCR



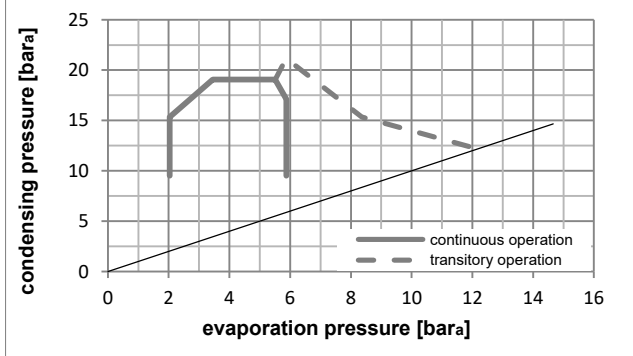
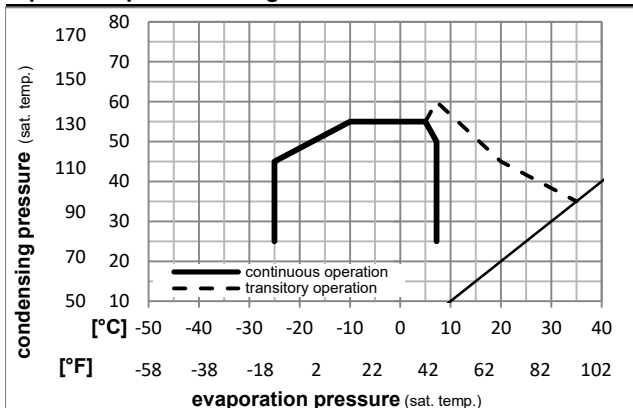
## Ambient/ machine room temperatures minimum /maximum

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

|    |                                       |          |
|----|---------------------------------------|----------|
| a6 | NL starter kit                        | 117U8201 |
| c  | start capacitor (80µF)                | 117U5353 |
| e  | run cap (10µF, 6.3mm, c.length 280mm) | 117-7166 |
| b  | cover terminal board + clamp          | 117U1038 |
| e1 | retaining clamp                       | 117-0314 |
|    | screw M4x8mm                          | 117-0301 |
| d  | cord relief                           | 103N1007 |

## Model

Designation **NLE13MNDX** **220-240V/50Hz** Conf. 1 Sales code: **105H7302**

## Optimization + standard conditions

R290, 220V/50Hz, CSCR, fan 3m/s, VDE

| Evaporating pressure (saturation temperature) |  |  |  |  | Condensing pressure (saturation temperature) |  |  |  |  |  | Power consumption   |  |  |  |
|-----------------------------------------------|--|--|--|--|----------------------------------------------|--|--|--|--|--|---------------------|--|--|--|
|                                               |  |  |  |  | Return gas temp.                             |  |  |  |  |  | Current consumption |  |  |  |
|                                               |  |  |  |  | Liquid temp.                                 |  |  |  |  |  | Ref. mass flow      |  |  |  |
|                                               |  |  |  |  | Cooling capacity                             |  |  |  |  |  | COP                 |  |  |  |
|                                               |  |  |  |  | EER                                          |  |  |  |  |  | P1                  |  |  |  |
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# NLE Plus Compressors

**SECCP**

Keep electrical equipment clear from oil, chemicals, and water



When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

## CSCR





# NLE Plus Compressors

**SECCP**

Keep electrical equipment clear from oil, chemicals, and water



When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

## Service/Repair – R290, R600a, R170, R1270, R1234yf (applies to all flammable refrigerants)



8545



**Dismantling, recycling, disposal:** At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. [www.seccp.com](http://www.seccp.com)**