

Single Pack NLE13LNDX 220-240V 50Hz CSCR

Single pack code number: **195B4832**

Position	Title	Code	Amount
1	Compressor NLE13LNDX	105H7301	1
2	Start equipment NLE	117U8200	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	NLE13LNDX	220-240V/50Hz 1~	Sales code:	105H7301
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	12,6cm ³ / 0,77cu.in
Oil quantity	298cm ³ / 10,1fl.oz	Compressors on pallet	
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	11,8kg / 26lbs		
Motor protection	external		
Winding resistance main	8,67Ω (at 25°C)		
Winding resistance aux	15,1Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE13LNDX

	Conf. 1
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 NLE13LNDX

	Conf. 1
Refrigerant	R290
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with NLE13LNDX

	Conf. 1
Starting device type	relay
Run capacitor	10μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	15,1A
RLA (rated load amps / 1s/ U(N))	1,95A
Cut in current (U(N))	

Model

Designation

NLE13LNDX

220-240V/50Hz 1~

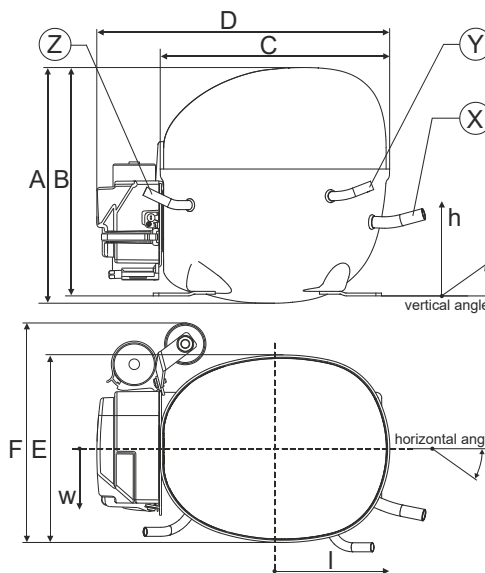
Sales code:

105H7301

Compressor dimensions

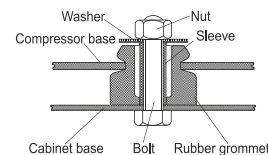
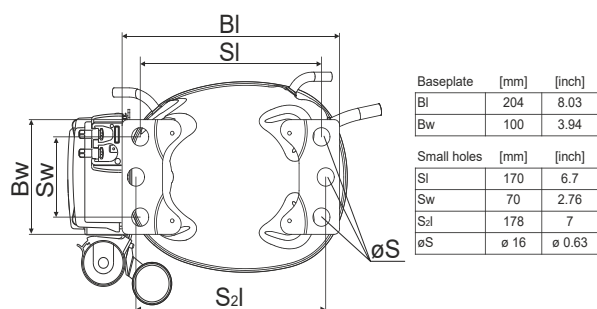
Housing	A Height	209mm / 8,23in
	B Height	203mm / 7,99in
	C Length shell	205mm / 8,07in
	D Length w. cover	262mm / 10,31in
	E Width	166mm / 6,54in

Connectors	Suction X	Discharge Y	Process 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

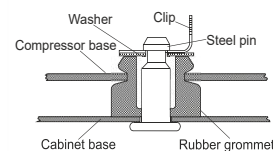


Compressor fixation

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

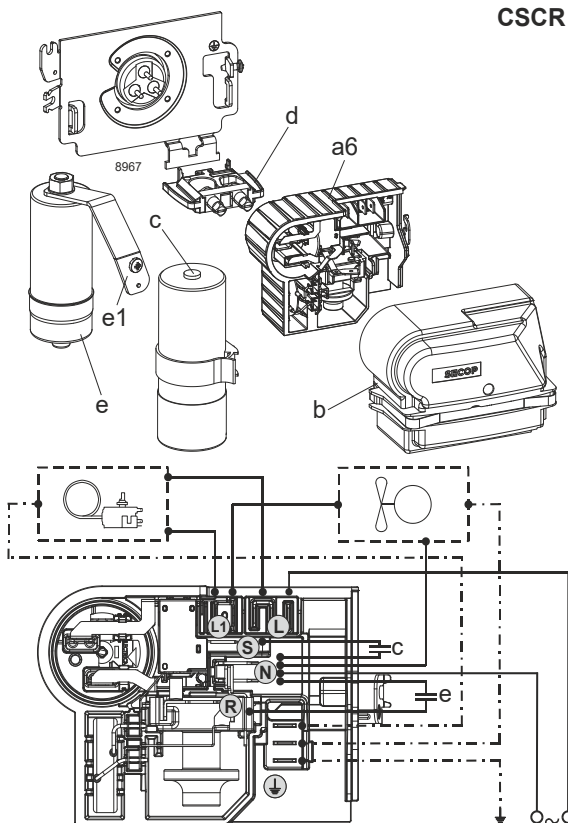
Model

Designation	NLE13LNDX	220-240V/50Hz	Conf. 1	Sales code:	105H7301
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Configuration

Motor configuration	CSCR
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Refrigerant	R290
Application	LBP
Voltage range	198-254V
Starting torque	HST
Approvals	VDE

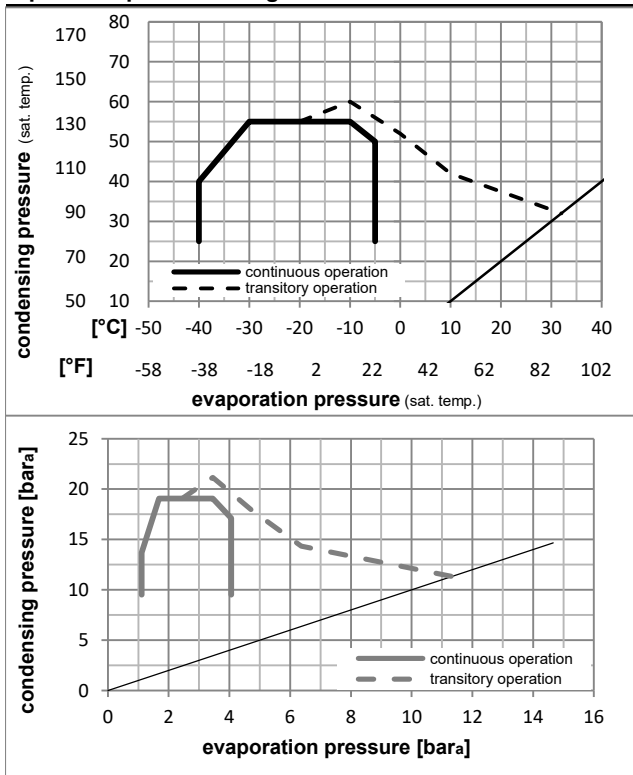
Electrical accessories / wiring diagram



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

a6	NL starter kit	117U8200
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 **NLE13LNDX** **220-240V/50Hz** Conf. 1 Sales code: **105H7301**

Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	610,7	2086	525,5	1,69	5,77	1,45	361,2	1,97	6,18	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	460,4	1572	396,2	1,32	4,51	1,14	348,5	1,93	5,73	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	354,5	1211	305,1	1,38	4,72	1,19	256,4	1,64	4,05	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	494,3	1688	425,4	1,41	4,83	1,22	349,5	1,93	6,85	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	660,5	2256	568,5	1,99	6,79	1,71	332,3	1,87	6,69	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	339,2	1159	292,0	1,30	4,44	1,12	260,9	1,65	3,80	opt
[°F]	-31	113	90	113										

Performance tables

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

	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]	-40	-40	259,0	885	222,9	1,15	3,91	0,99	226,0	1,55	2,90
cond. pressure	-35	-31	339,2	1159	292,0	1,30	4,44	1,12	260,9	1,65	3,80
pc= 45/113	-30	-22	430,7	1471	370,6	1,46	4,98	1,26	295,1	1,75	4,84
return gas temp.	-25	-13	537,1	1834	462,2	1,63	5,57	1,40	329,3	1,86	6,06
RGT= 32/90	-20	-4	662,4	2262	570,1	1,82	6,21	1,56	364,3	1,98	7,50
liquid temp	-15	5	810,5	2768	697,6	2,02	6,90	1,74	400,9	2,12	9,22
Tliq= 45/113	-5	23	1190,5	4066	1024,6	2,47	8,43	2,13	482,1	2,43	13,71
[°C / °F]	-40	-40	216,0	738	185,9	0,94	3,21	0,81	229,8	1,56	2,66
cond. pressure	-35	-31	287,7	982	247,6	1,07	3,65	0,92	269,0	1,67	3,56
pc= 55/131	-30	-22	367,8	1256	316,6	1,19	4,07	1,03	308,4	1,80	4,56
return gas temp	-25	-13	460,4	1572	396,2	1,32	4,51	1,14	348,5	1,93	5,73
RGT= 32/90	-20	-4	569,1	1944	489,8	1,46	4,98	1,25	390,3	2,08	7,12
liquid temp	-15	5	698,0	2384	600,7	1,61	5,49	1,38	434,5	2,25	8,78
Tliq= 55/131	-5	23	1031,5	3523	887,7	1,93	6,61	1,66	533,2	2,64	13,14



NLE Plus Compressors

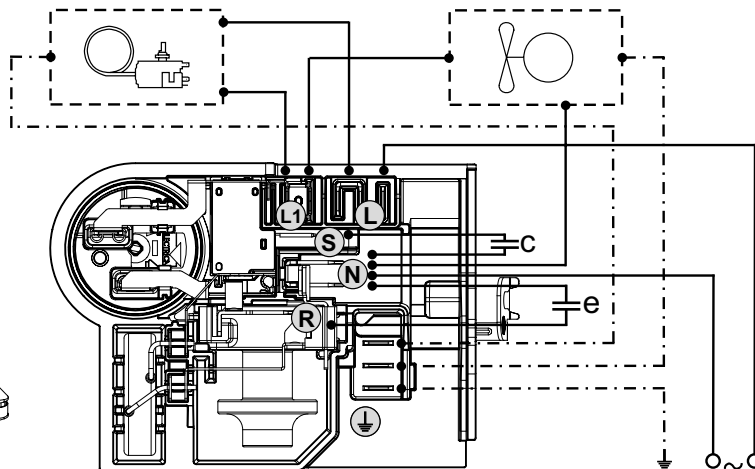
SECCP

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**