Model

Designation	**NLE10CN**	**115-127V/60Hz 1~**	Sales code:	**105H6119**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	10,09cm³ / 0,62cu.in
Oil quantity	265cm³ / 9fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	10,9kg / 24lbs		
Motor protection	1# internal		
Winding resistance main	1,56Ω (at 25°C)		
Winding resistance aux	4,4Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	120°C / 248°F		

General - Configurations with NLE10CN

	Conf. 1
Motorconfiguration	RSCR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	103-127V
Approvals	UL, CCC
Starting torque	LST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE10CN

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

Electrical data - Configurations with NLE10CN

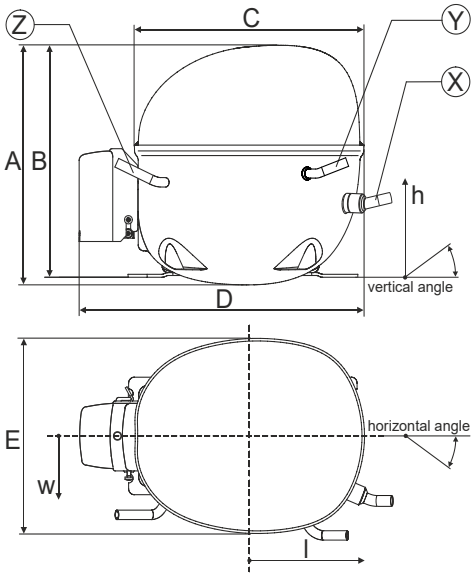
	Conf. 1
Starting device type	PTC
Run capacitor	15µF
Start capacitor	-/-
LRA (locked rotor amps / 4s)	29,18A
RLA (rated load amps / 1s)	5,6A
Cut in current	38,64A
IP class	21

Model

Designation **NLE10CN** **115-127V/60Hz 1~** Sales code: **105H6119**

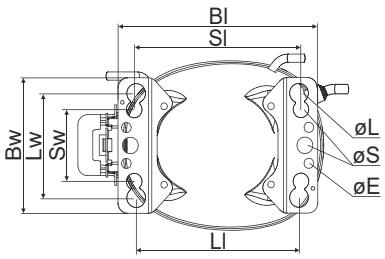
Compressor dimensions

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 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	132/69/56	94/99/86	-111/92/72
	[in]	5,2/2,7/2,2	3,7/3,9/3,4	-4,4/3,6/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

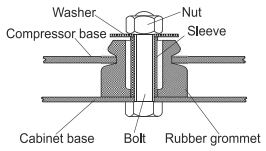


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38

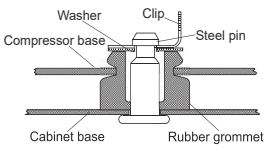
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
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	
Bolt joint | ø1/4" | ø19mm	118-1949	
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Application notes

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

Model

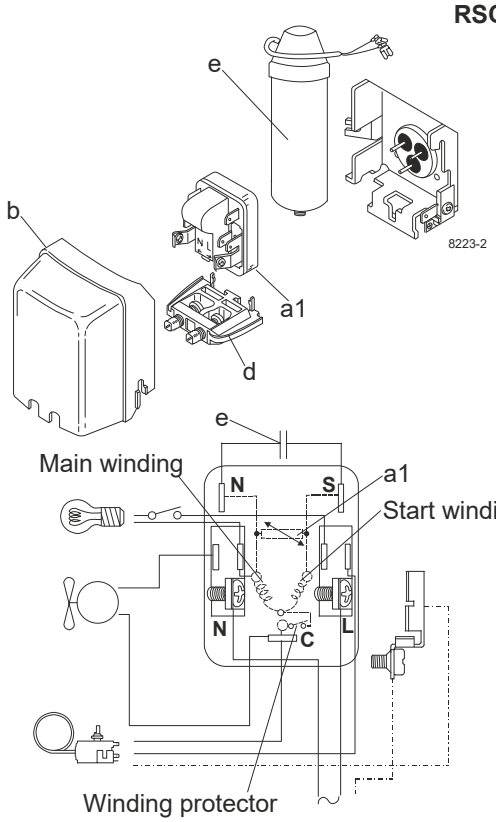
Designation				
	NLE10CN	**115V/60Hz**	**Conf. 1**	Sales code: **105H6119**

Configuration

Motorconfiguration	RSCR
Power supply (nominal)	115V/60Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	103-127V
Starting torque	LST
Approvals	UL SA3693
	CCC

Electrical accessories / wiring diagram

RSCR

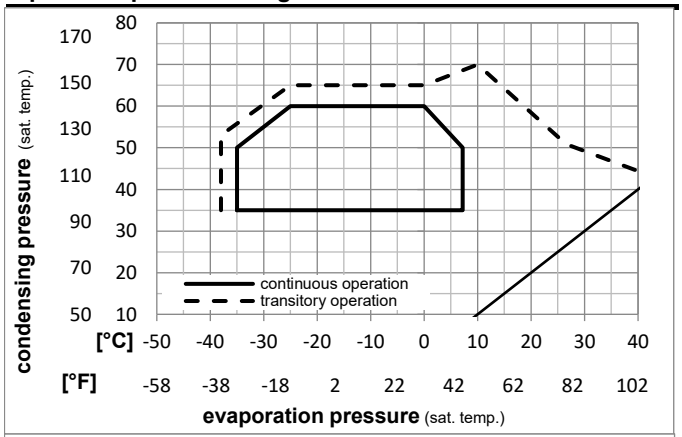


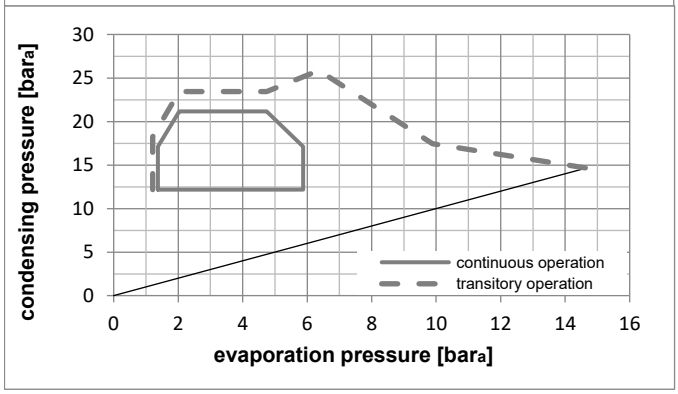
Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	fan 3m/s	n/a
38°C / 100°F	fan 3m/s	fan 3m/s	n/a
43°C / 110°F	fan 3m/s	n/a	n/a

Operation pressure range





Components (already pre-assembled)

a1	e-PTC starter	103N0058
e	run capacitor (15µF, 6.3mm)	117-7118
b	plastic cover	103N2011
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Alternative components

a1	e-PTC starter (115V, 5Ohm, 6.3mm, 4.8-cap)	103N0057
e	run capacitor (15µF, 4.8mm)	117-7120
b	plastic cover	103N2011
d	cord relief	103N1010
	bracket for run capacitor	117-0300
	screw M4x8mm	117-0301

Model

Designation **NLE10CN 115V/60Hz** **Conf. 1** Sales code: **105H6119**

Optimization + standard conditions 115V/60Hz, RSCR, fan 3m/s, UL, CCC

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	Cooling capacity [Btu/h]	Cooling capacity [kcal/h]	COP [W/W]	EER [Btu/Wh]	EER [kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23,3	54,4	32,2	32,2	616,9	2107	530,9	1,67	5,72	1,44	368,5	4,78	6,25	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	463,8	1584	399,2	1,29	4,40	1,11	359,9	4,74	5,78	**cecomaf LBP**
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	367,4	1255	316,2	1,39	4,75	1,20	264,3	4,18	4,20	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-6,66	54,4	35	46,1	1086,8	3712	935,3	2,25	7,69	1,94	482,8	5,50	12,40	**ASHRAE MBP**
[°F]	20	130	95	115										
[°C]	-10	55	32	55	868,0	2964	747,0	1,87	6,38	1,61	464,3	5,39	10,98	**cecomaf MBP**
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	949,4	3242	817,0	2,24	7,65	1,93	423,7	5,06	11,66	**EN12900 MBP**
[°F]	14	113	68	113										

Performance tables 115V/60Hz, RSCR, fan 3m/s, UL, CCC

	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	344,8	1177	296,7	1,29	4,42	1,11	266,3	4,17	3,86
cond. pressure	-23,3	-10	585,3	1999	503,7	1,70	5,82	1,47	343,4	4,62	6,61
pc= 45/113	-15	5	820,5	2802	706,1	2,08	7,12	1,79	393,6	4,90	9,34
return gas temp.	-9,4	15	1008,2	3443	867,7	2,36	8,06	2,03	427,1	5,08	11,54
RGT= 32/90	-3,9	25	1221,6	4172	1051,4	2,64	9,03	2,28	462,1	5,27	14,09
liquid temp	0	32	1386,7	4736	1193,4	2,84	9,70	2,44	488,1	5,42	16,08
Tliq= 45/113	7,2	45	1728,7	5904	1487,8	3,19	10,90	2,75	541,4	5,72	20,31
[°C / °F]	-35	-31	286,2	978	246,3	1,02	3,48	0,88	281,1	4,27	3,54
cond. pressure	-23,3	-10	500,3	1709	430,6	1,34	4,59	1,16	372,0	4,81	6,24
pc= 55/131	-15	5	714,1	2439	614,6	1,66	5,67	1,43	430,2	5,17	8,98
return gas temp	-9,4	15	886,3	3027	762,8	1,89	6,47	1,63	468,1	5,42	11,22
RGT= 32/90	-3,9	25	1083,3	3700	932,3	2,14	7,30	1,84	506,9	5,67	13,82
liquid temp	0	32	1236,3	4222	1064,0	2,31	7,89	1,99	535,1	5,87	15,88
Tliq= 55/131	7,2	45	1554,6	5309	1337,9	2,63	8,97	2,26	591,6	6,28	20,25