

## Single Pack NLE10CN 115V 60Hz CSIR

Single pack code number: **195B4308**

Position	Title	Code	Amount
1	Compressor NLE10CN	105H6195	1
2	Bolt joint for one compressor   M6   ø16mm	118-1917	1

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## Model

Designation	<b>NLE10CN</b>	115V/60Hz 1~	Sales code:	<b>105H6195</b>
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## 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	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

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

## Applications with NLE10CN

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

## Electrical data - Configurations with NLE10CN

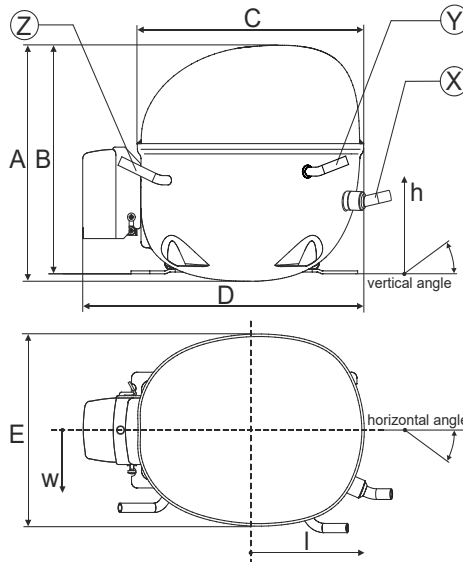
	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	-/-
Start capacitor	280μF
LRA (locked rotor amps / 4s/ U(N))	34,53A
RLA (rated load amps / 1s/ U(N))	5,6A
Cut in current (U(N))	34,53A

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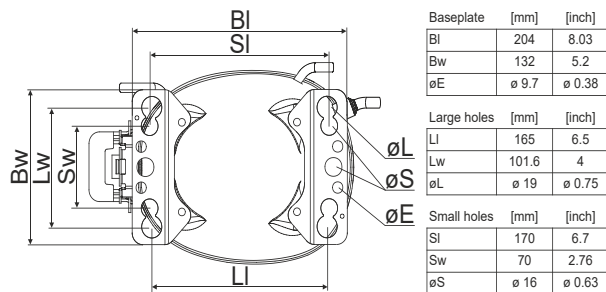
## Compressor dimensions

<b>Housing</b>	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

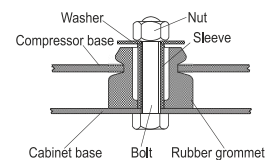


Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	132/69/57	94/102/81	-109/94/72
	[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

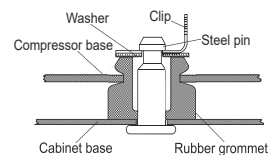
## Compressor fixation



### 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

## #NV

## #NV

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

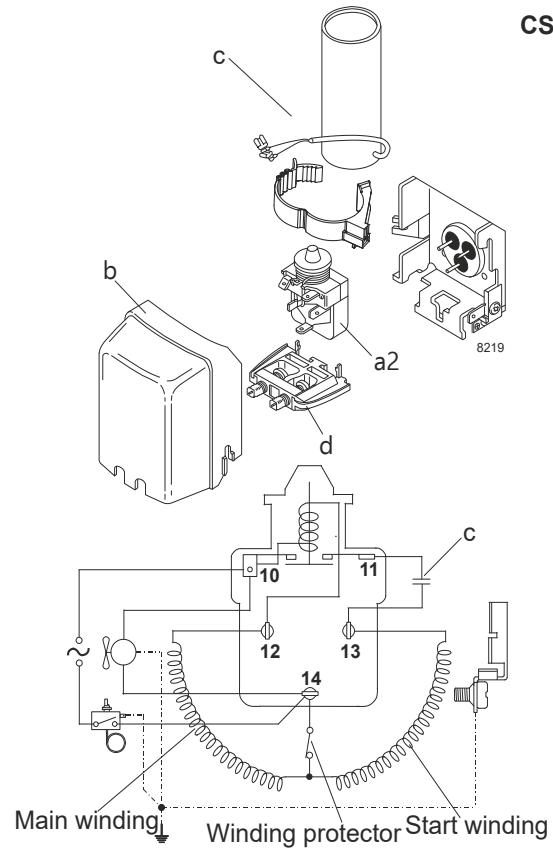
## Model

Designation	<b>NLE10CN</b>	<b>115V/60Hz</b>	<b>Conf. 1</b>	Sales code:	<b>105H6195</b>
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## Configuration

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

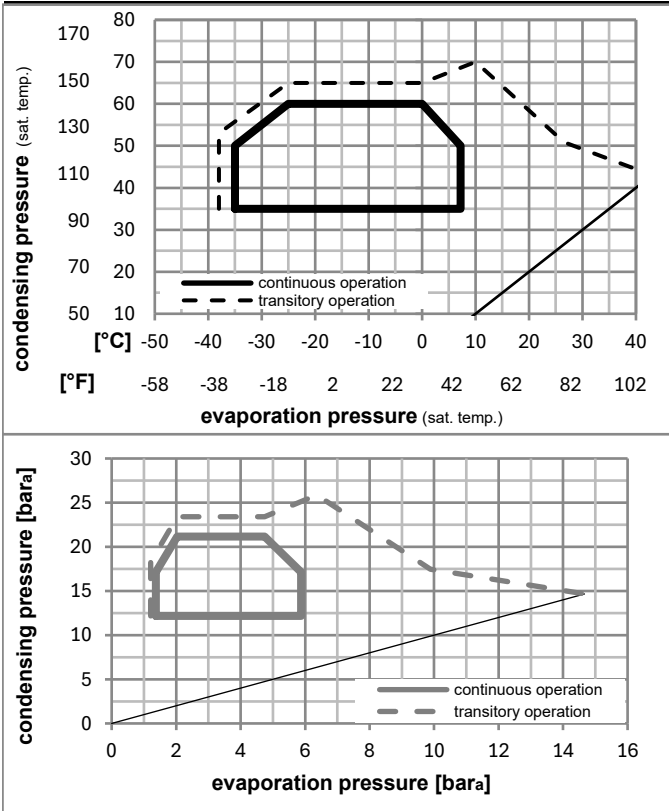
## Electrical accessories / wiring diagram



## 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 (incl. and pre. assembl.)

a2	current relay	117U7018
c	start capacitor (280µF)	117U5025
b	plastic cover	103N2011
d	cord relief	103N1010

## Model

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## Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL

		Evaporating pressure (saturation temperature)				Cooling capacity			COP	EER	Power consumption				
		Condensing pressure (saturation temperature)		Return gas temp.	Liquid temp.	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	Ref. mass flow	
[°C]	[°F]	pe	pc	RGT	Tliq							[W]	[A]	[kg/h]	
[°C]	-23	54	32	32		607,0	2073	522,4	1,52	5,20	1,31	399,0	5,18	6,15	ASHRAE LBP
[°F]	-10	130	90	90											
[°C]	-25	55	32	55		456,4	1559	392,8	1,17	4,00	1,01	389,8	5,13	5,68	cecomaf LBP
[°F]	-13	131	90	131											
[°C]	-35	40	20	40		361,5	1235	311,1	1,26	4,31	1,09	286,2	4,52	4,13	EN12900 LBP
[°F]	-31	104	68	104											
[°C]	-7	54	35	46		1069,4	3652	920,3	2,05	6,99	1,76	522,8	5,95	12,20	ASHRAE MBP
[°F]	20	130	95	115											
[°C]	-10	55	32	55		854,1	2917	735,1	1,70	5,80	1,46	502,8	5,84	10,80	cecomaf MBP
[°F]	14	131	90	131											
[°C]	-10	45	20	45		934,1	3190	803,9	2,04	6,95	1,75	458,8	5,48	11,47	EN12900 MBP
[°F]	14	113	68	113											

## Performance tables

R290, 115V/60Hz, CSIR, fan 3m/s, UL

	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	339,2	1159	292,0	1,18	4,02	1,01	288,4	4,52	3,80
cond. pressure	-23	-10	575,9	1967	495,6	1,55	5,29	1,33	371,9	5,00	6,50
pc= 45/113	-15	5	807,4	2757	694,8	1,89	6,47	1,63	426,2	5,30	9,19
return gas temp.	-9	15	992,1	3388	853,8	2,15	7,33	1,85	462,5	5,50	11,36
RGT= 32/90	-4	25	1202,1	4105	1034,5	2,40	8,20	2,07	500,4	5,71	13,86
liquid temp	0	32	1364,5	4660	1174,3	2,58	8,82	2,22	528,6	5,87	15,83
Tliq= 45/113	7,2	45	1701,0	5809	1463,9	2,90	9,91	2,50	586,3	6,20	19,99
[°C / °F]	-35	-31	281,6	962	242,4	0,93	3,16	0,80	304,4	4,62	3,48
cond. pressure	-23	-10	492,3	1681	423,7	1,22	4,17	1,05	402,9	5,21	6,14
pc= 55/131	-15	5	702,7	2400	604,7	1,51	5,15	1,30	465,9	5,60	8,83
return gas temp	-9	15	872,1	2978	750,6	1,72	5,88	1,48	507,0	5,86	11,04
RGT= 32/90	-4	25	1065,9	3640	917,3	1,94	6,63	1,67	548,9	6,15	13,60
liquid temp	0	32	1216,5	4155	1046,9	2,10	7,17	1,81	579,5	6,36	15,62
Tliq= 55/131	7,2	45	1529,7	5224	1316,5	2,39	8,15	2,05	640,6	6,80	19,93

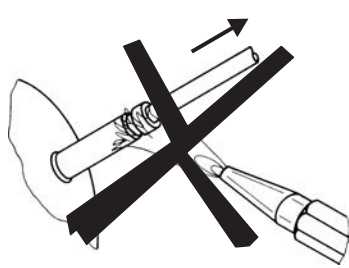


# NL Compressors





## Service/Repair – R600a, R290



8545

## Brazing on Suction Connectors (Direct Intake)

representative image



**! max. 150°C/302°F !  
at socket**  
brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:  
**Brazing on Suction Connectors  
(Compressors with Direct Suction Intake)**

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