

## Model

Designation	<b>NLE12.6CNS</b> 115-127V/60Hz 1~	Sales code:	<b>105H6392</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R290</b>
Oil viscosity	32cST	Displacement	12,55cm <sup>3</sup> / 0,77cu.in
Oil quantity	294cm <sup>3</sup> / 10fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm <sup>3</sup> / 79,8fl.oz		
Weight	11,7kg / 25,8lbs		
Motor protection	1# internal		
Winding resistance main	1Ω (at 25°C)		
Winding resistance aux	3,3Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



## General - Configurations with NLE12.6CNS

	<b>Conf. 1</b>
Motorconfiguration	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	103-135V
Approvals	UL
Starting torque	HST
Note	Important: compressor is optimized for strong power supply and oversized heat exchangers.

## Applications with NLE12.6CNS

	<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 NLE12.6CNS

	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	-/-
Start capacitor	180μF
LRA (locked rotor amps / 4s)	31A
RLA (rated load amps / 1s)	6,4A
Cut in current	31A
IP class	21

## Model

Designation

**NLE12.6CNS** 115-127V/60Hz 1~

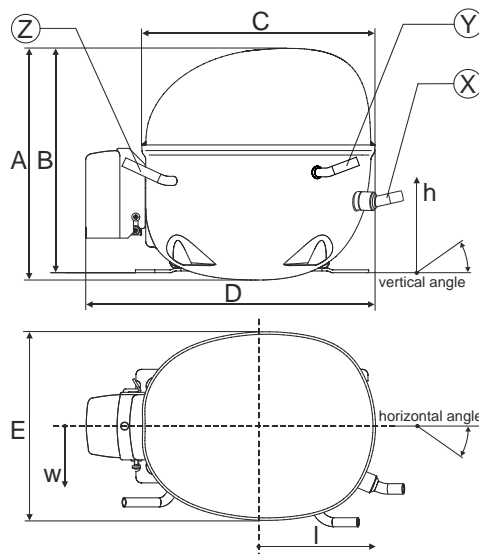
Sales code:

**105H6392**

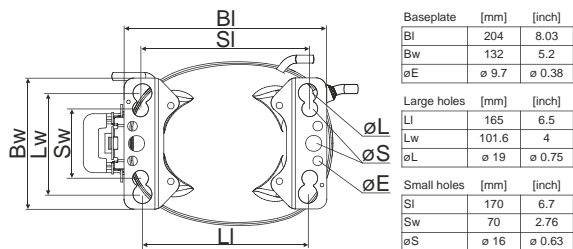
## Compressor dimensions

<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

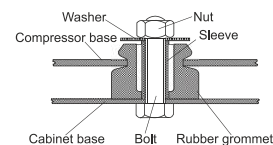
Connectors	Suction	Discharge	Process
	X	Y	Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/69/56	94/99/86	-111/92/72
[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
	[in]	0,5	0,5



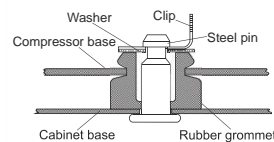
## Compressor fixation



### 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

## Application notes

Important: compressor is optimized for strong power supply and oversized heat exchangers.

Tailor made for supermarket applications.

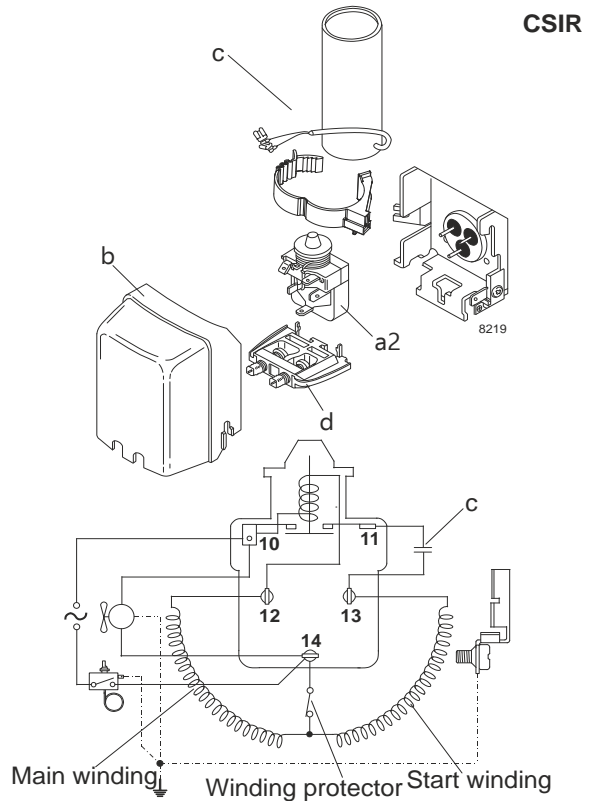
## Model

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## Configuration

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Voltage range	103-135V
Starting torque	HST
Approvals	UL

## Electrical accessories / wiring diagram

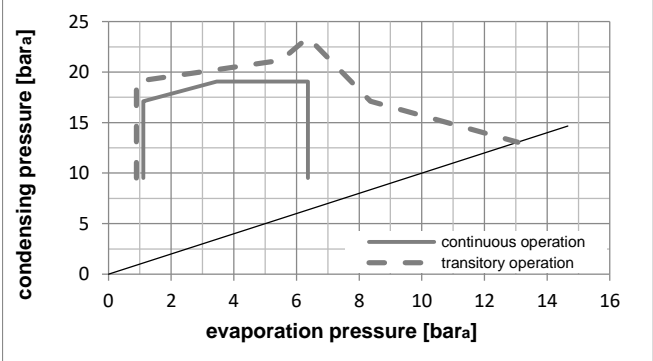
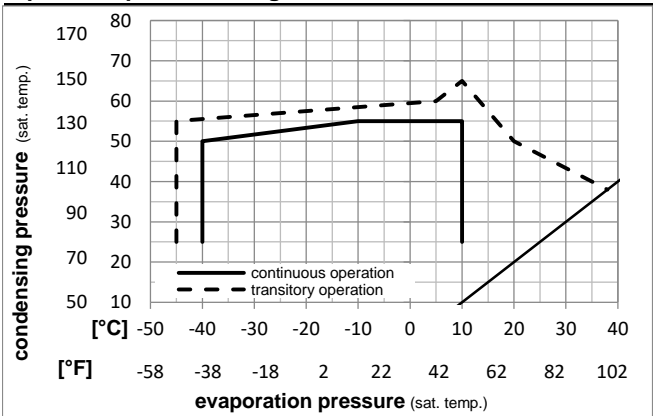


## Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	38°C / 101°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	n/a	fan 3m/s	n/a

## Operation pressure range



## Components

a2	current relay	117U7023
c	start capacitor (180µF)	117U5039
b	plastic cover	103N2011
d	cord relief	103N1010

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## Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption				ASHRAE LBP
					Return gas temp.			Liquid temp.			Current consumption		Ref. mass flow ṁ		
pe	pc	RGT	Tliq		Cooling capacity		COP	EER	P1	I					
[°C]	[°C]	[°C]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-23,3	54,4	32,2	32,2	748,4	2556	644,1	1,60	5,47	1,38	467,3	5,35	7,58	ASHRAE LBP	
[°F]	-10	130	90	90											
[°C]	-25	55	32	55	555,6	1897	478,1	1,25	4,26	1,07	445,6	5,17	6,92	cecomaf LBP	
[°F]	-13	131	89,6	131											
[°C]	-35	40	20	40	418,5	1429	360,1	1,32	4,51	1,14	317,0	4,10	4,78	EN12900 LBP	
[°F]	-31	104	68	104											
[°C]	-6,66	54,4	35	46,1	1340,0	4576	1153,2	1,98	6,76	1,70	676,5	7,09	15,29	ASHRAE MBP	
[°F]	20	130	95	115											
[°C]	-10	55	32	55	1070,9	3657	921,6	1,68	5,72	1,44	639,1	6,78	13,55	cecomaf MBP	
[°F]	14	131	89,6	131											
[°C]	-10	45	20	45	1180,6	4032	1016,0	2,00	6,83	1,72	590,7	6,37	14,50	EN12900 MBP	
[°F]	14	113	68	113											

## Performance tables

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]	-40	-40	278,1	950	239,3	1,09	3,71	0,94	255,8	3,59	3,11
cond. pressure	-34,4	-30	403,3	1377	347,1	1,25	4,27	1,08	322,5	4,15	4,52
pc= 45/113	-23,3	-10	718,1	2453	618,0	1,59	5,44	1,37	450,6	5,21	8,11
return gas temp.	-15	5	1018,8	3479	876,8	1,89	6,44	1,62	540,3	5,96	11,59
RGT= 32/90	-3,9	25	1519,0	5188	1307,2	2,34	8,00	2,02	648,4	6,85	17,52
liquid temp	0	32	1723,5	5886	1483,3	2,52	8,62	2,17	682,6	7,14	19,99
Tliq= 45/113	10	50	2326,6	7946	2002,3	3,06	10,45	2,63	760,3	7,78	27,49
[°C / °F]	-40	-40	183,2	626	157,7	0,77	2,63	0,66	237,9	3,45	2,26
cond. pressure	-34,4	-30	307,0	1049	264,2	0,97	3,32	0,84	315,9	4,09	3,80
pc= 55/131	-23,3	-10	605,0	2066	520,7	1,29	4,42	1,11	467,9	5,35	7,54
return gas temp	-15	5	880,7	3008	758,0	1,53	5,22	1,31	576,7	6,26	11,07
RGT= 32/90	-3,9	25	1331,1	4546	1145,5	1,87	6,39	1,61	711,9	7,38	16,99
liquid temp	0	32	1513,7	5170	1302,7	2,00	6,84	1,72	756,0	7,75	19,44
Tliq= 55/131	10	50	2050,0	7001	1764,3	2,38	8,14	2,05	860,0	8,61	26,88