

Model

Designation	NLE10CN	115V/60Hz 1~	Sales code:	105H6195
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	10,09cm ³ / 0,62cu.in
Oil quantity	300cm ³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm ³ / 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	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	103-127V
Approvals	UL
Starting torque	HST
Note	Protector and relay are 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	relay
Run capacitor	0μF
Start capacitor	240μF
LRA (locked rotor amps / 4s)	34,53A
RLA (rated load amps / 1s)	5,6A
Cut in current	34,53A
IP class	21

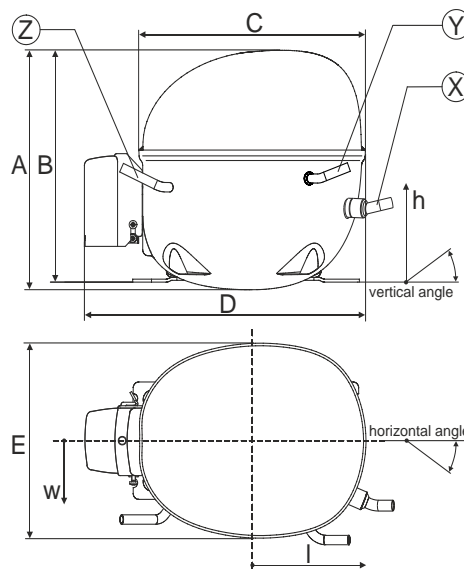
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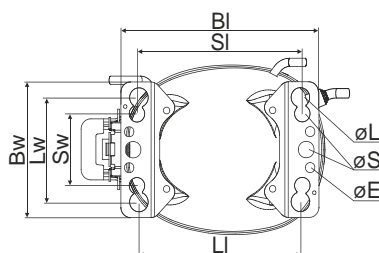
Compressor dimensions

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°	22°	0°	0
Vertical angle	±2°	45°	35°	155°
Position l/h/w	[mm]	128/79/61	88/95/85	-112/97/68
	[in]	5/3,1/2,4	3,5/3,7/3,3	-4,4/3,8/2,7
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

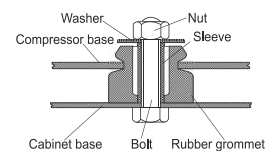


Compressor fixation

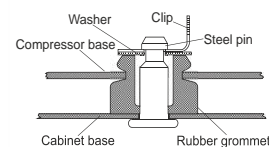


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	132	5.2
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63

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

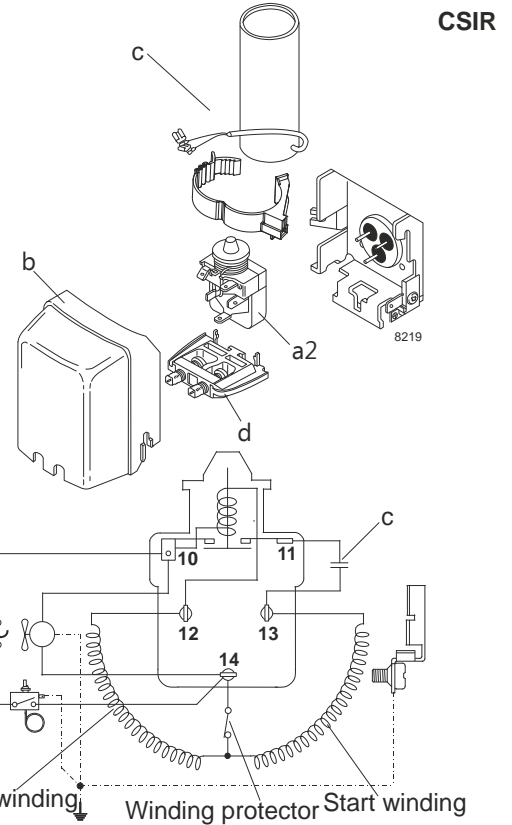
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Configuration

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

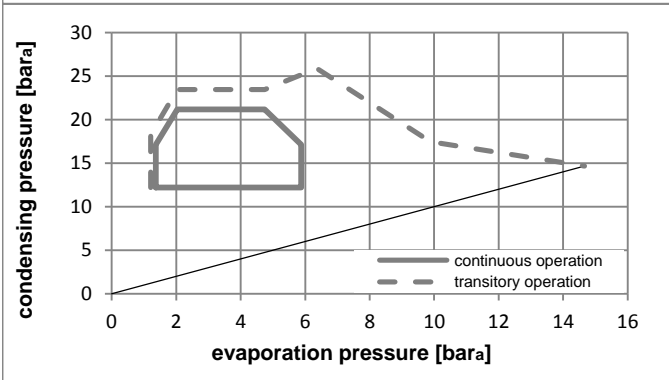
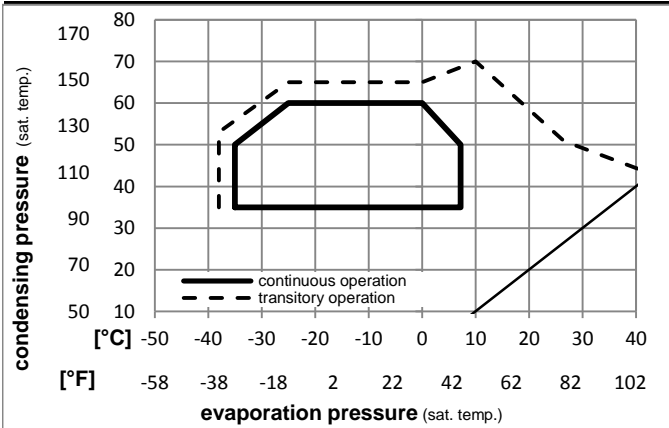


Ambient temperatures / system cooling

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

System cooling			
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:

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

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Optimization + standard conditions

115V/60Hz 1~, CSIR, fan 3m/s, UL

	Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)						Power consumption			ASHRAE LBP
	pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P1	I	Ref. mass flow		
	[°C]	[°F]	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-23,3	54,4	32,2	32,2	607,0	2073	522,4	1,52	5,20	1,31	399,0	5,18	6,15	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	456,4	1559	392,8	1,17	4,00	1,01	389,8	5,13	5,68	cecomaf LBP
	-13	131	89,6	131										
	-35	40	20	40	361,5	1235	311,1	1,26	4,31	1,09	286,2	4,52	4,13	EN12900 LBP
	-31	104	68	104										
	-6,66	54,4	35	46,1	1069,4	3652	920,3	2,05	6,99	1,76	522,8	5,95	12,20	ASHRAE MBP
	20	130	95	115										
	-10	55	32	55	854,1	2917	735,1	1,70	5,80	1,46	502,8	5,84	10,80	cecomaf MBP
	14	131	89,6	131										
	-10	45	20	45	934,1	3190	803,9	2,04	6,95	1,75	458,8	5,48	11,47	EN12900 MBP
	14	113	68	113										

Performance tables

115V/60Hz 1~, 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	-23,3	-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.	-9,4	15	992,1	3388	853,8	2,15	7,33	1,85	462,5	5,50	11,36
RGT= 32/90	-3,9	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	-23,3	-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	-9,4	15	872,1	2978	750,6	1,72	5,88	1,48	507,0	5,86	11,04
RGT= 32/90	-3,9	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