

Model
NLE11CNL

Sales code:
105H6174

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.10 kg / 26.68lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General - Configurations With NLE11CNL

-	Conf. 1	Conf. 2
Motor configuration	CSIR	eRSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	CCC	CCC
Starting torque	HST	LST
Refrigerant	R290	R290
Application	LBP	LBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

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

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Compressor Design

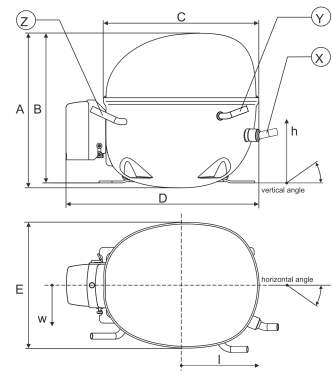
Oil type	POE	Winding resistance main	7.72 Ohm
Oil viscosity	32cSt	Winding resistance aux	17.82 Ohm
Oil quantity	303 / 10.25fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

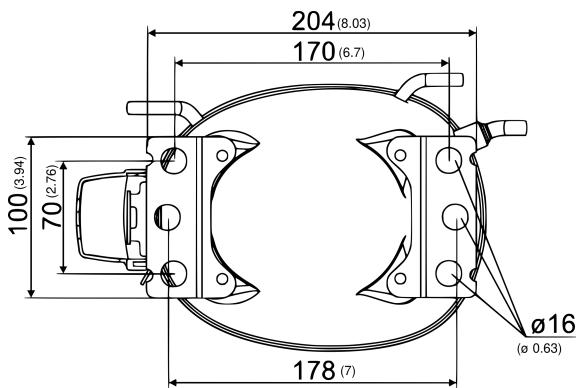
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

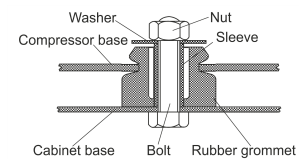


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

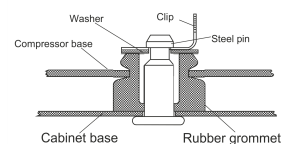
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	13.8 A
RLA (rated load amps / 1s/ U(N))	2.59 A
Cut in current (U(N))	13.8 A

Ambient/ machine room temperatures minimum /maximum

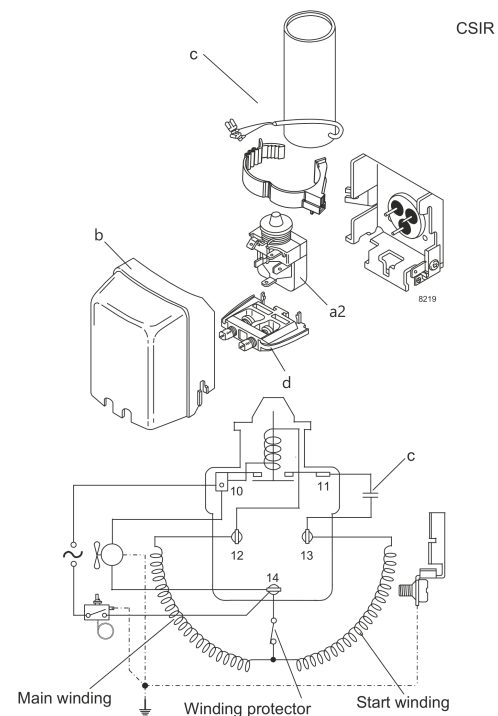
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay 117U7003

c start capacitor (80µF) 117U5015

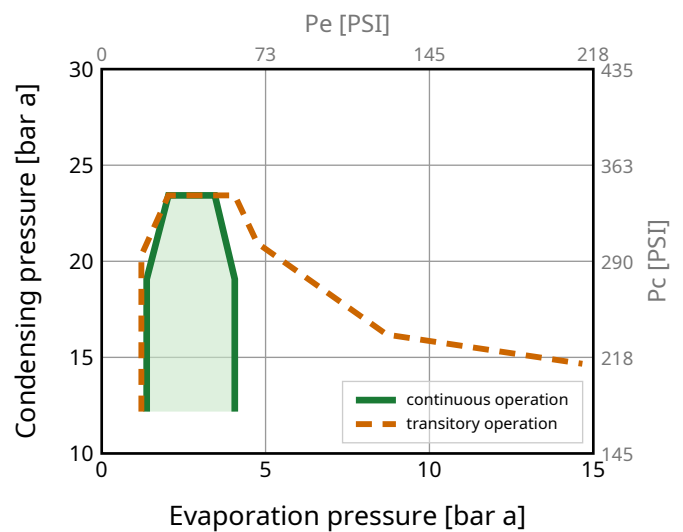
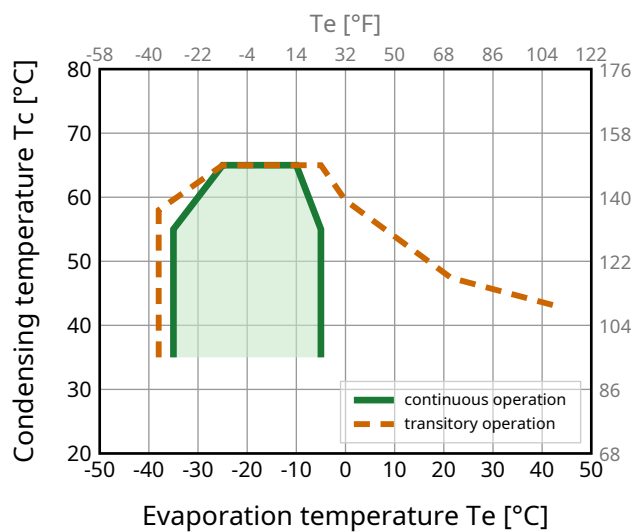
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 1

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Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	542	1849	466	1.52	5.20	356	2.22	5.50	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	403	1375	347	1.18	4.01	342	2.18	5.05	CECOMAF LBP
-35 -31	40 104	20 68	40 104	305	1041	262	1.18	4.03	258	1.95	3.50	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	442	1510	381	1.28	4.35	347	2.19	6.14	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	591	2017	508	1.78	6.06	333	2.15	6.00	AHAM LBP
-35 -31	45 113	32 89.6	45 113	291	994	251	1.11	3.79	262	1.96	3.28	opt LBP

Performance Tables

R290, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	291	994	251	1.11	3.79	262	1.96	3.28
-30	-22	376	1281	323	1.27	4.35	294	2.04	4.24
-25	-13	477	1628	410	1.45	4.95	329	2.14	5.41
-20	-4	597	2036	513	1.64	5.59	364	2.25	6.79
-15	5	734	2505	631	1.83	6.26	400	2.38	8.39
-10	14	891	3039	766	2.04	6.96	436	2.52	10.23
-5	23	1066	3638	917	2.26	7.70	472	2.65	12.31

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	243	828	209	0.91	3.09	268	1.97	3.02
-30	-22	315	1074	271	1.04	3.54	304	2.06	3.93
-25	-13	403	1375	347	1.18	4.01	342	2.18	5.05
-20	-4	507	1731	436	1.32	4.50	384	2.32	6.39
-15	5	629	2145	541	1.47	5.01	428	2.49	7.95
-10	14	767	2616	659	1.62	5.52	474	2.66	9.75
-5	23	922	3147	793	1.77	6.04	521	2.85	11.81

Model

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Configuration 2

Sales code:

105H6174

Configuration

Motor configuration	eRSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	CCC
Starting device type	e-PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	13.8 A
RLA (rated load amps / 1s/ U(N))	2.59 A
Cut in current (U(N))	13.8 A

Ambient/ machine room temperatures minimum /maximum

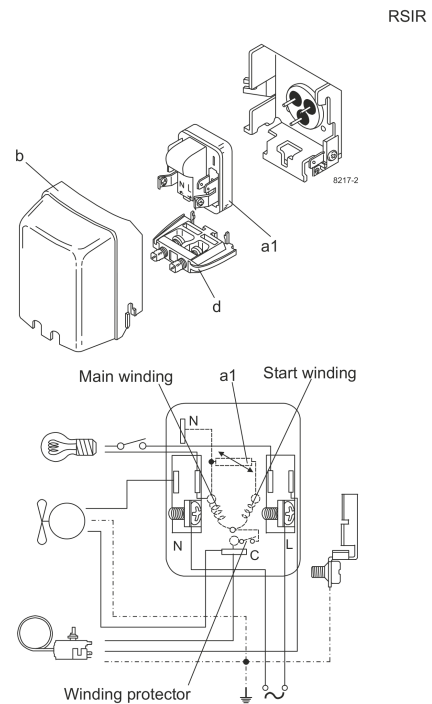
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System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter (220V, 250hm, 4.8mm) 103N0050

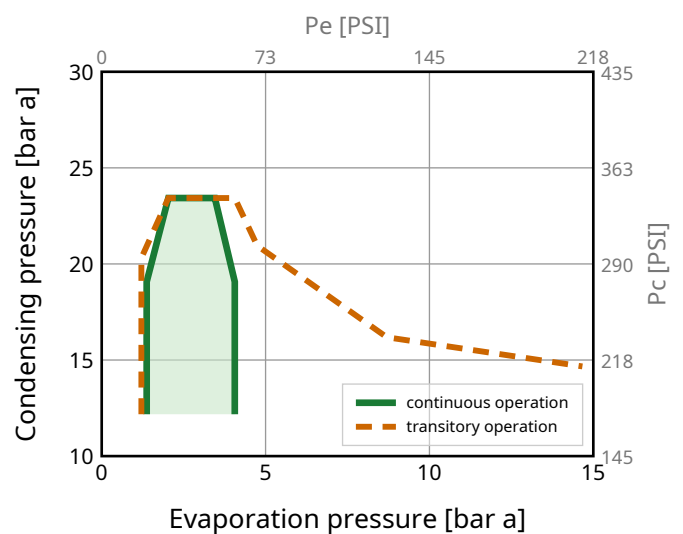
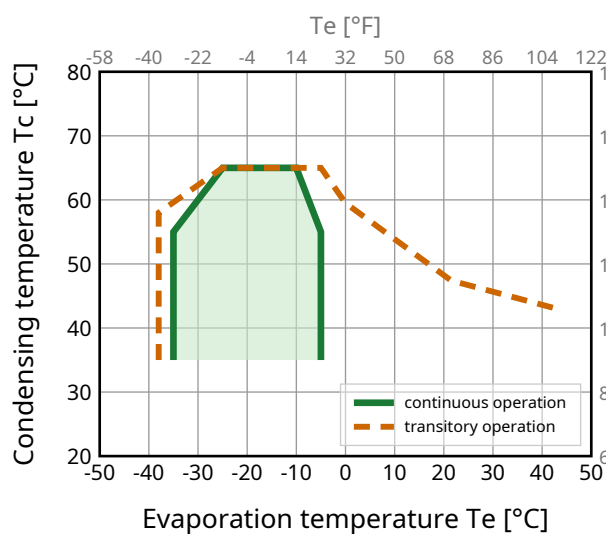
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Operation Pressure Range



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