

Model

NLE11CNL

Sales code:

105H5981

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.13 kg / 26.74lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NLE11CNL

-	Conf. 1	Conf. 2
Motor configuration	CSIR	eRSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, CCC	UL, CCC
Starting torque	HST	LST
Refrigerant	R290	R290
Application	LBP	LBP
Hot gas defrost	OK	OK

Application Notes

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

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Compressor Design

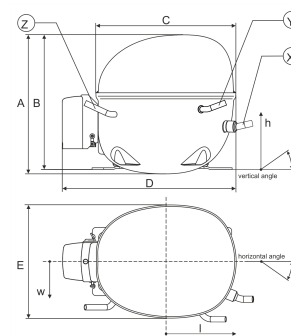
Oil type	32 cSt POE RL32DR	Winding resistance main	1.100 Ohm
Oil viscosity	32cSt	Winding resistance aux	3.61 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

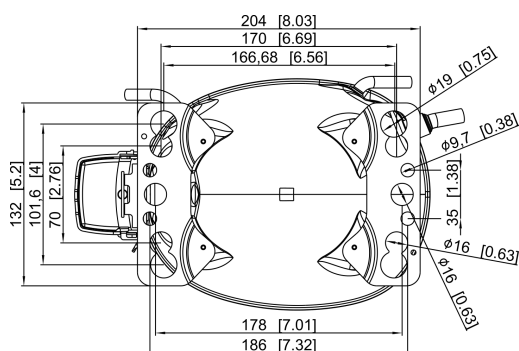
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



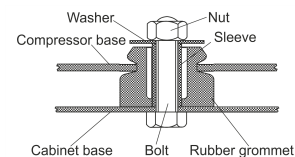
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-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

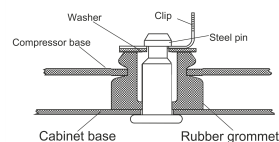


Dimensions in mm [in]

Bolt joint



Snap-on



	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 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	180 µF
LRA (locked rotor amps / 4s/ U(N))	28.67 A
RLA (rated load amps / 1s/ U(N))	5.74 A
Cut in current (U(N))	28.67 A

Ambient/ machine room temperatures minimum /maximum

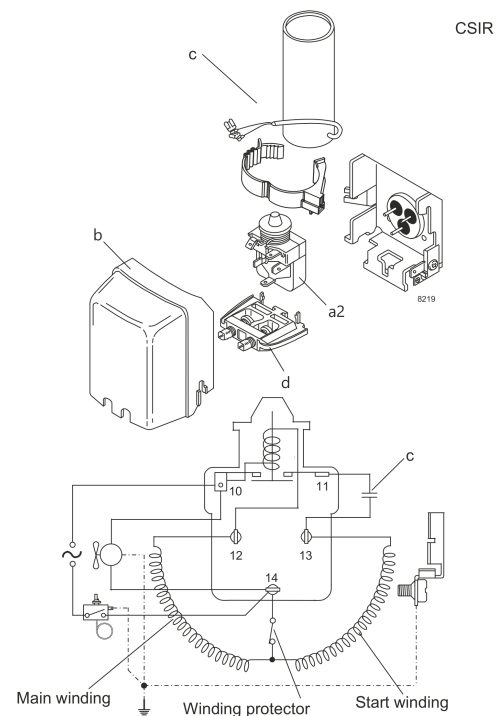
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

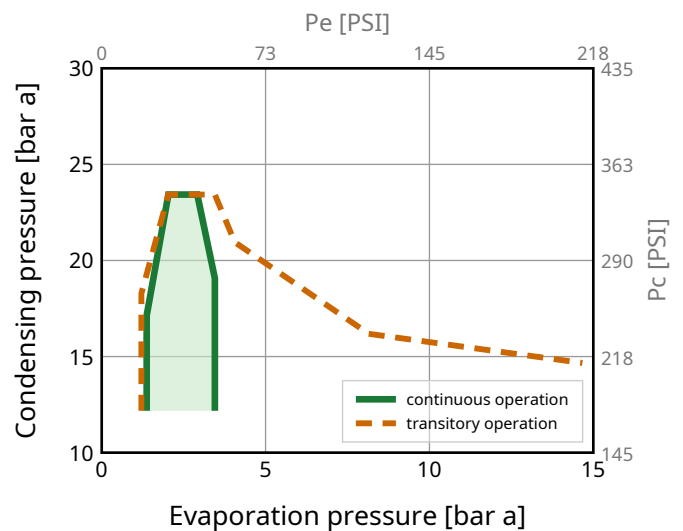
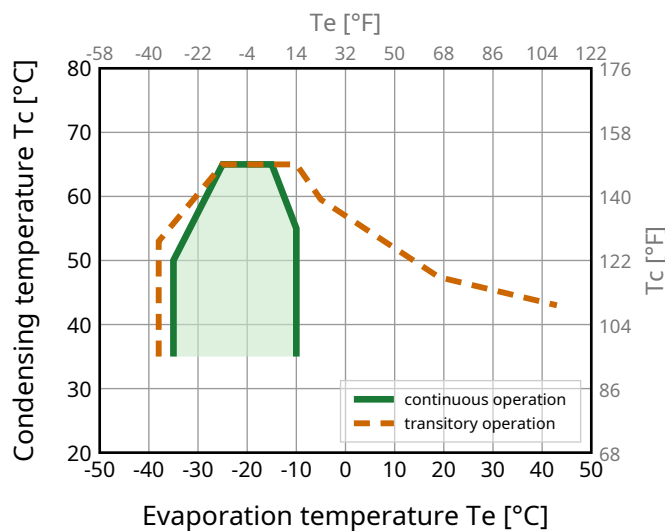
a2 relay 117U7020

c start capacitor (180µF) 117U5039

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R290, 115 V/60 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	674	2301	580	1.63	5.56	414	4.80	6.85	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	502	1714	432	1.26	4.30	398	4.68	6.30	CECOMAF LBP
-35 -31	40 104	20 68	40 104	384	1312	331	1.29	4.40	298	4.04	4.41	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	547	1866	470	1.35	4.62	404	4.73	7.59	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	725	2475	624	1.89	6.45	384	4.61	7.37	AHAM LBP
-25 -13	45 113	32 89.6	45 113	588	2007	506	1.54	5.25	382	4.57	6.67	opt LBP

Performance Tables

R290, 115 V/60 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	366	1250	315	1.22	4.18	300	4.05	4.13
-30	-22	465	1586	400	1.36	4.64	342	4.29	5.25
-25	-13	588	2007	506	1.54	5.25	382	4.57	6.67
-20	-4	734	2506	632	1.74	5.95	421	4.88	8.36
-15	5	902	3078	776	1.96	6.68	461	5.21	10.31
-10	14	1089	3717	937	2.17	7.39	503	5.53	12.51

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

-35	-31	310	1057	267	1.05	3.59	294	4.07	3.86
-30	-22	394	1345	339	1.13	3.87	348	4.35	4.93
-25	-13	502	1714	432	1.26	4.30	398	4.68	6.30
-20	-4	632	2156	543	1.41	4.82	447	5.06	7.95
-15	5	781	2665	672	1.58	5.38	496	5.46	9.88
-10	14	948	3236	816	1.74	5.93	546	5.87	12.06

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Configuration 2

Sales code:

105H5981

Configuration

Motor configuration	eRSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	95-135 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	e-PTC
Run capacitor	23.5 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	28.67 A
RLA (rated load amps / 1s/ U(N))	5.74 A
Cut in current (U(N))	28.67 A

Ambient/ machine room temperatures minimum /maximum

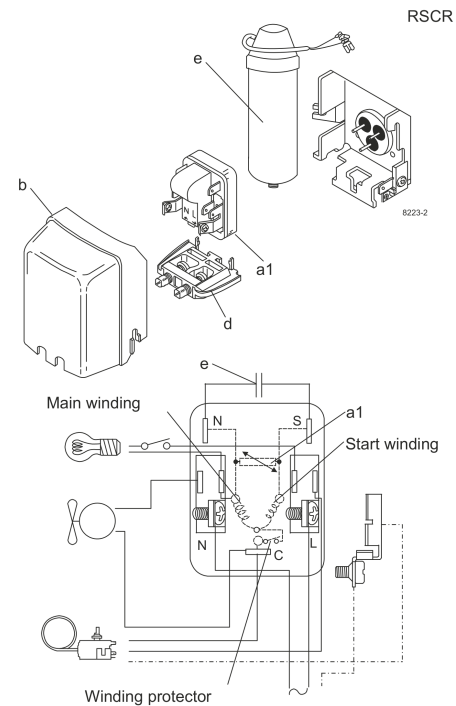
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter 103N0058

e run capacitor (23,5 μ F, 6.3mm) 117-7114

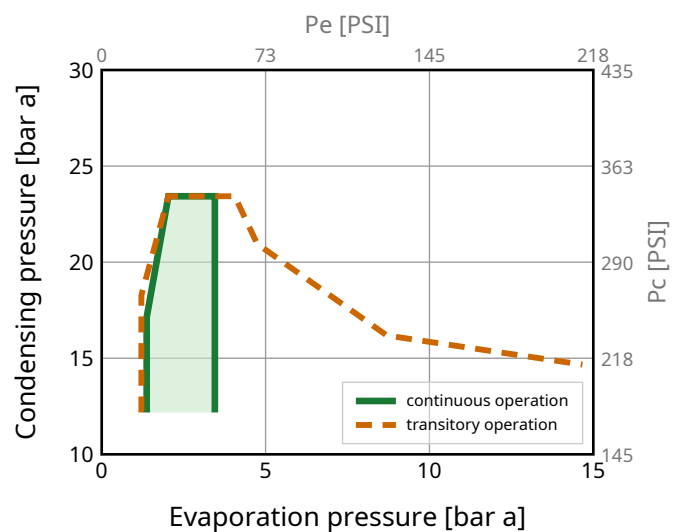
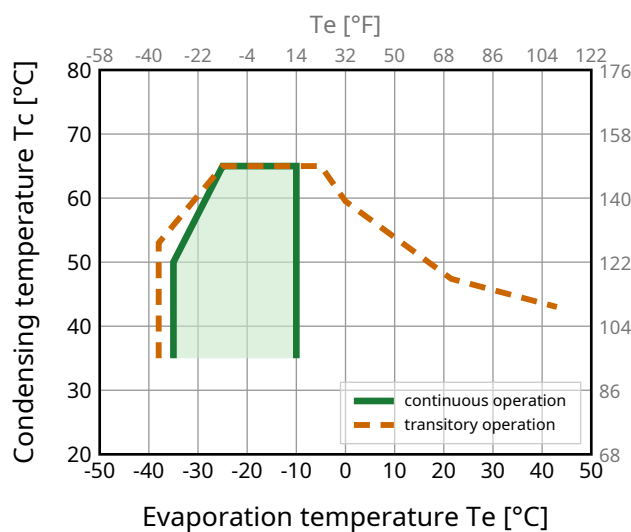
b plastic cover 103N2011

d cord relief 103N1010

bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Operation Pressure Range



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Configuration 2

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Standard Conditions

R290, 115 V/60 Hz, eRSCR, 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	689	2351	592	1.78	6.07	387	4.49	7.00	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	513	1751	441	1.38	4.70	373	4.38	6.43	CECOMAF LBP
-35 -31	40 104	20 68	40 104	384	1311	330	1.38	4.70	279	3.78	4.41	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	556	1897	478	1.47	5.02	378	4.42	7.72	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	729	2488	627	2.03	6.93	359	4.32	7.41	AHAM LBP
-25 -13	45 113	32 89.6	45 113	594	2026	511	1.66	5.67	358	4.28	6.73	opt LBP

Performance Tables

R290, 115 V/60 Hz, eRSCR, 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	368	1257	317	1.31	4.49	280	3.79	4.15
-30	-22	469	1599	403	1.47	5.00	320	4.01	5.29
-25	-13	594	2026	511	1.66	5.67	358	4.28	6.73
-20	-4	742	2532	638	1.88	6.42	394	4.57	8.44
-15	5	912	3110	784	2.11	7.21	431	4.87	10.42
-10	14	1101	3756	947	2.34	7.99	470	5.17	12.64

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

-35	-31	317	1081	273	1.15	3.92	276	3.81	3.95
-30	-22	403	1376	347	1.24	4.23	326	4.07	5.04
-25	-13	513	1751	441	1.38	4.70	373	4.38	6.43
-20	-4	645	2200	554	1.54	5.26	418	4.73	8.12
-15	5	796	2716	685	1.72	5.85	464	5.11	10.07
-10	14	965	3294	830	1.89	6.45	510	5.50	12.28