Single
Packs

Single Pack NLE11CNL 220-240V 50Hz CSIR

Single pack code number: **195B4193**

Position	Title	Code	Amount
1	Compressor NLE11CNL	105H6174	1
2	Starting relay	117U7003	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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

Model
NLE11CNL

Sales code:
105H6174

Compressor Design

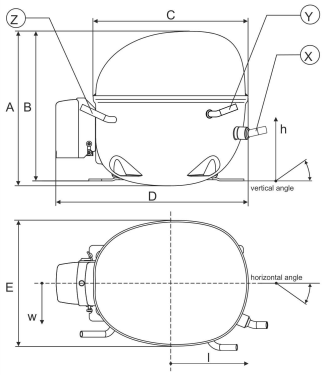
Oil type	**POE**	Winding resistance main	**7.72 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**17.82 Ohm**
Oil quantity	**303 / 10.25fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

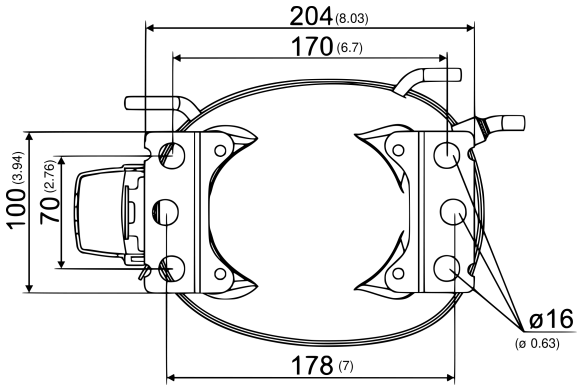
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



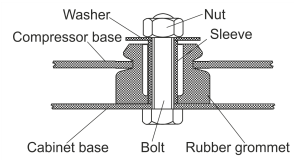
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

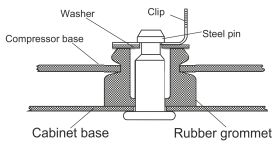


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	–
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Model
NLE11CNL Configuration 1

Sales code:
105H6174

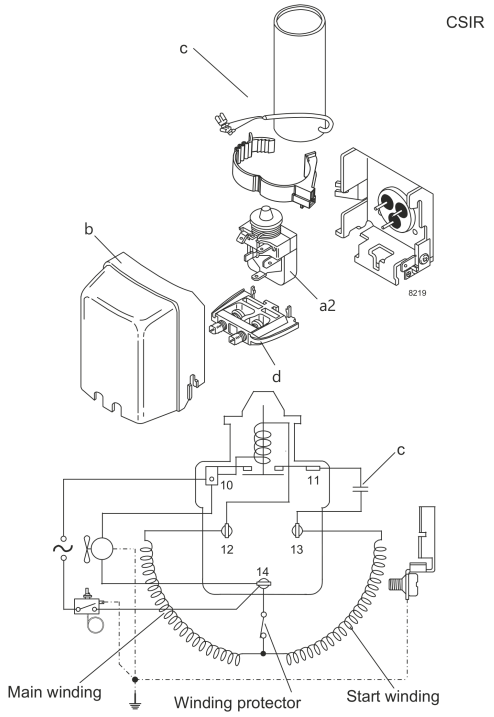
Configuration

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

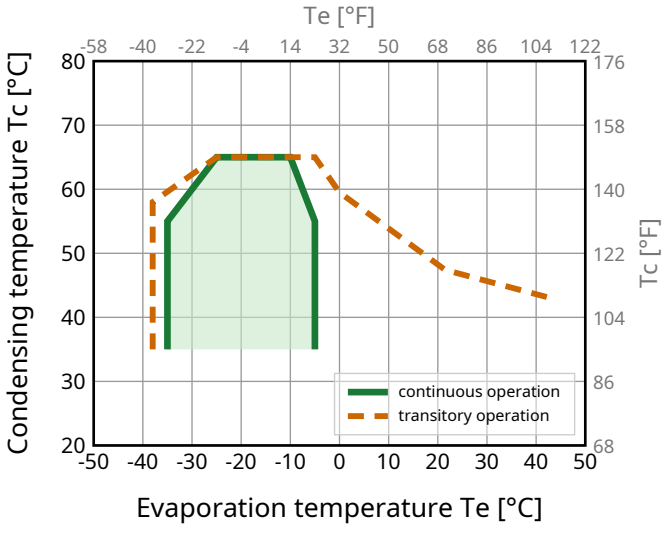


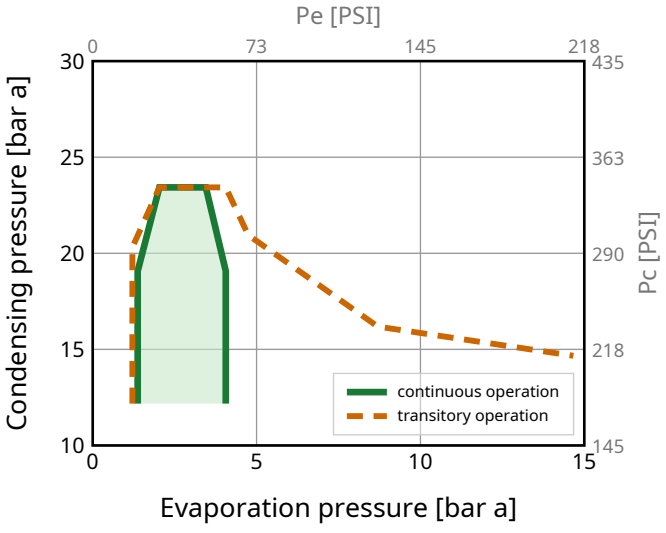
View full size

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





Model

NLE11CNL Configuration 1

Sales code:

105H6174

Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	ṁ
[°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
NLE11CNL Configuration 2

Sales code:
105H6174

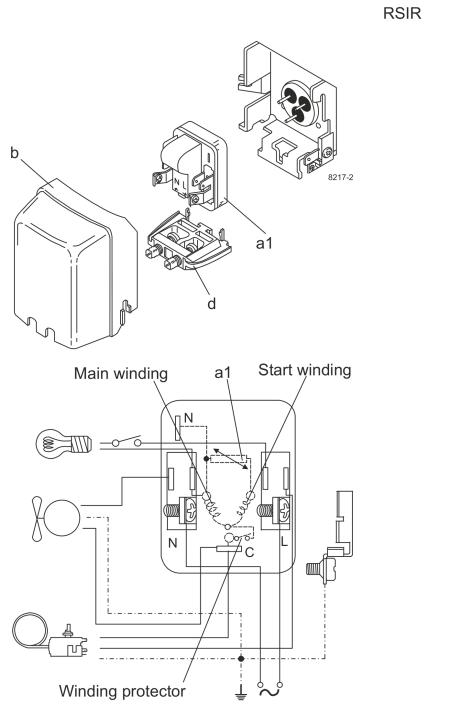
Configuration

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
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

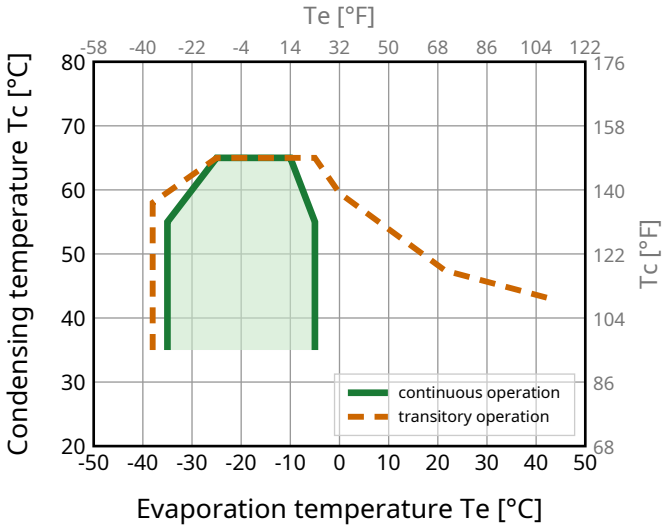
Electrical Accessories / Wiring Diagram

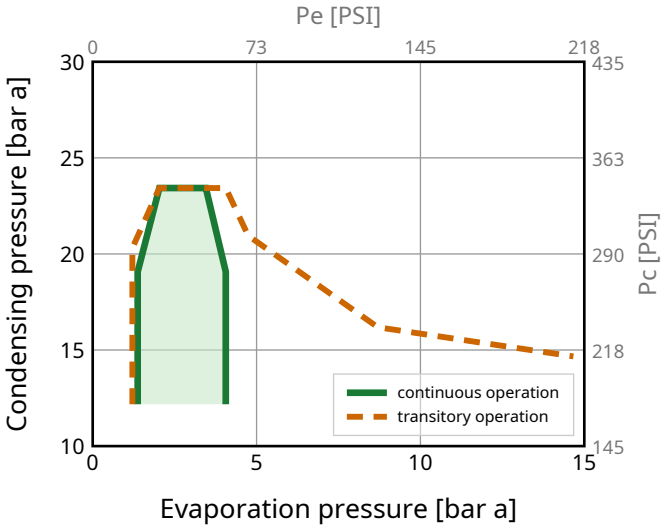


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE11CNL Configuration 2

Sales code:
105H6174

Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
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-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, eRSIR, fan 3m/s

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

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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
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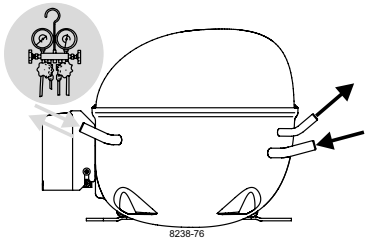


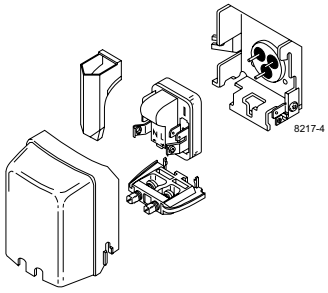
NL Compressors

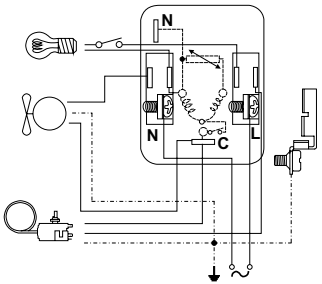
SECOP

Keep electrical equipment clear from oil, chemicals, and water

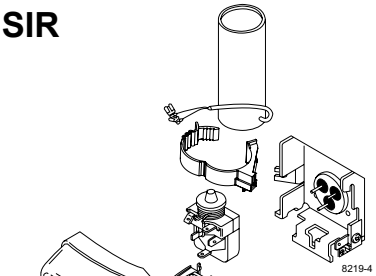
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

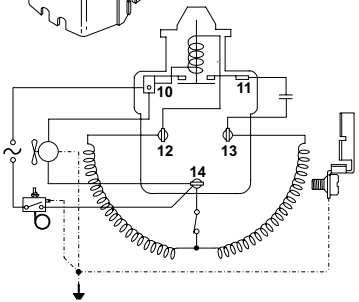
RSIR





CSIR





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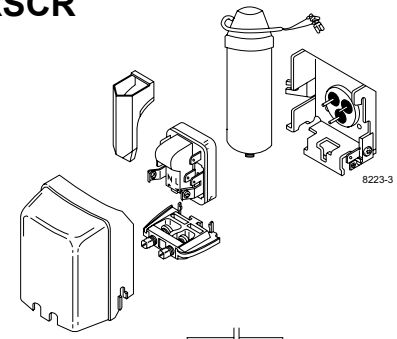
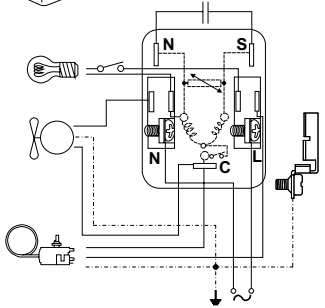
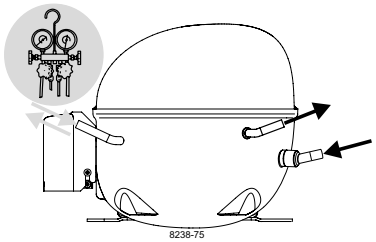






NL Compressors

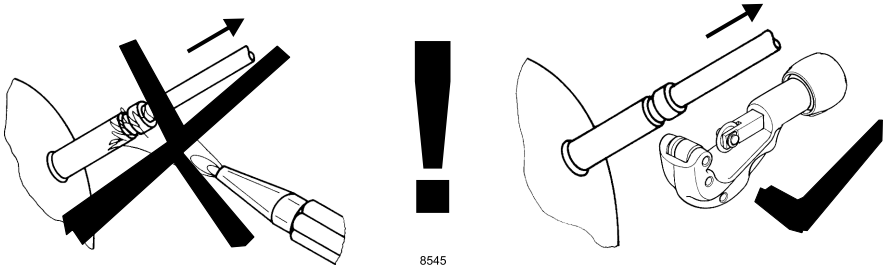
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

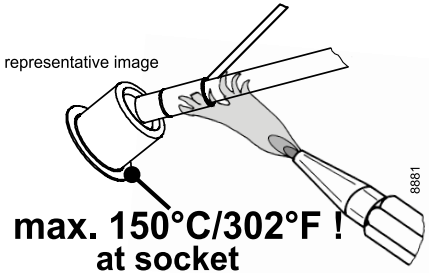
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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)

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**