

Model
NL11F

Sales code:
105G6900

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.70 kg / 23.59lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NL11F

-	Conf. 1	Conf. 2
Motor configuration	CSIR	RSIR
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	VDE, EAC	VDE, EAC
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP	LBP

Application Notes

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

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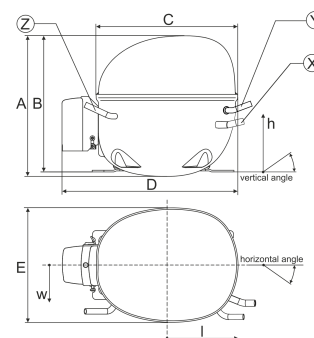
Compressor Design

Oil type	POE	Winding resistance main	8.200 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.70 Ohm
Oil quantity	298 / 10.08fl.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

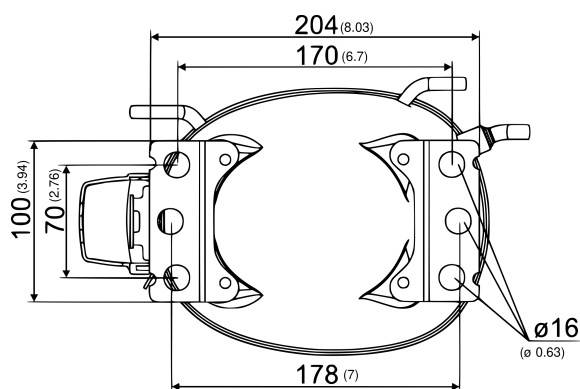
Housing

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

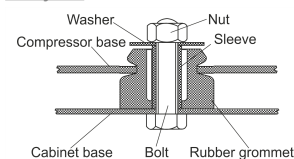
[Find 3D Model here](#)


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°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

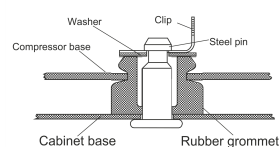
Mounting Accessories



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	R134a
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

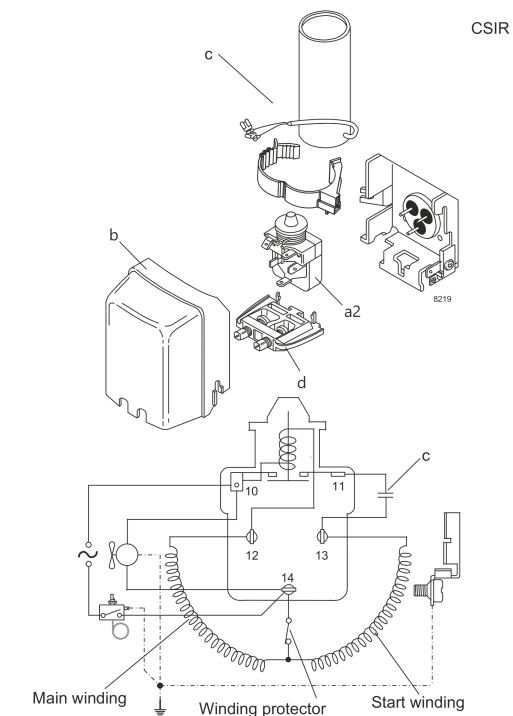
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components

a2 assy. relay 117U6002

c start capacitor (80µF) 117U5015

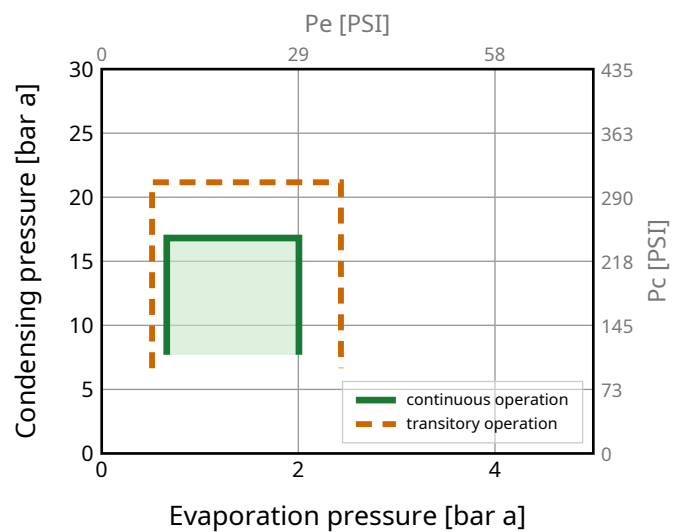
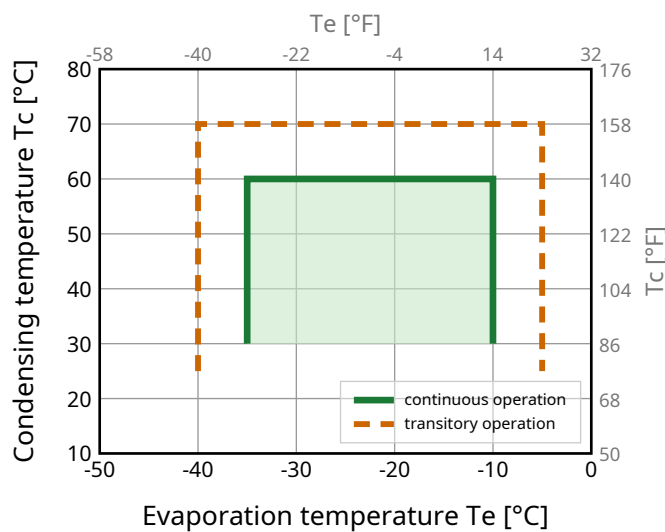
b plastic cover 103N2010

d cord relief 103N1010

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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	274	934	235	1.22	4.17	224	1.57	5.31	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	200	683	172	0.94	3.22	212	1.54	4.77	CECOMAF LBP
-35 -31	40 104	20 68	40 104	135	460	116	0.86	2.94	156	1.51	2.95	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	227	774	195	1.03	3.52	220	1.56	5.95	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	306	1044	263	1.42	4.85	216	1.55	5.94	AHAM LBP
-25 -13	45 113	32 89.6	45 113	239	816	206	1.15	3.93	208	1.53	5.17	opt LBP

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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	124	424	107	0.83	2.83	150	1.47	2.67
-30	-22	176	599	151	0.98	3.35	179	1.48	3.79
-25	-13	239	816	206	1.15	3.93	208	1.53	5.17
-20	-4	318	1084	273	1.34	4.57	237	1.61	6.89
-15	5	413	1409	355	1.53	5.24	269	1.74	8.98
-10	14	527	1798	453	1.73	5.91	304	1.90	11.51

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

-35	-31	102	350	88	0.75	2.55	137	1.41	2.43
-30	-22	146	497	125	0.83	2.84	175	1.46	3.46
-25	-13	200	683	172	0.94	3.22	212	1.54	4.77
-20	-4	268	914	230	1.07	3.66	250	1.66	6.41
-15	5	352	1199	302	1.22	4.16	289	1.82	8.44
-10	14	453	1544	389	1.37	4.67	330	2.01	10.91

Model

NL11F

Configuration 2

Sales code:

105G6900

Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE, EAC
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

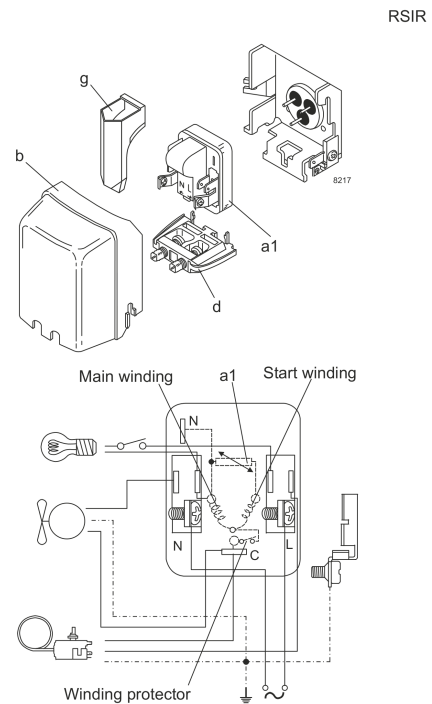
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System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram


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Components

a1 PTC starter (220V, 250Ohm, 6.3mm) 103N0011

b plastic cover 103N2011

d cord relief 103N1010

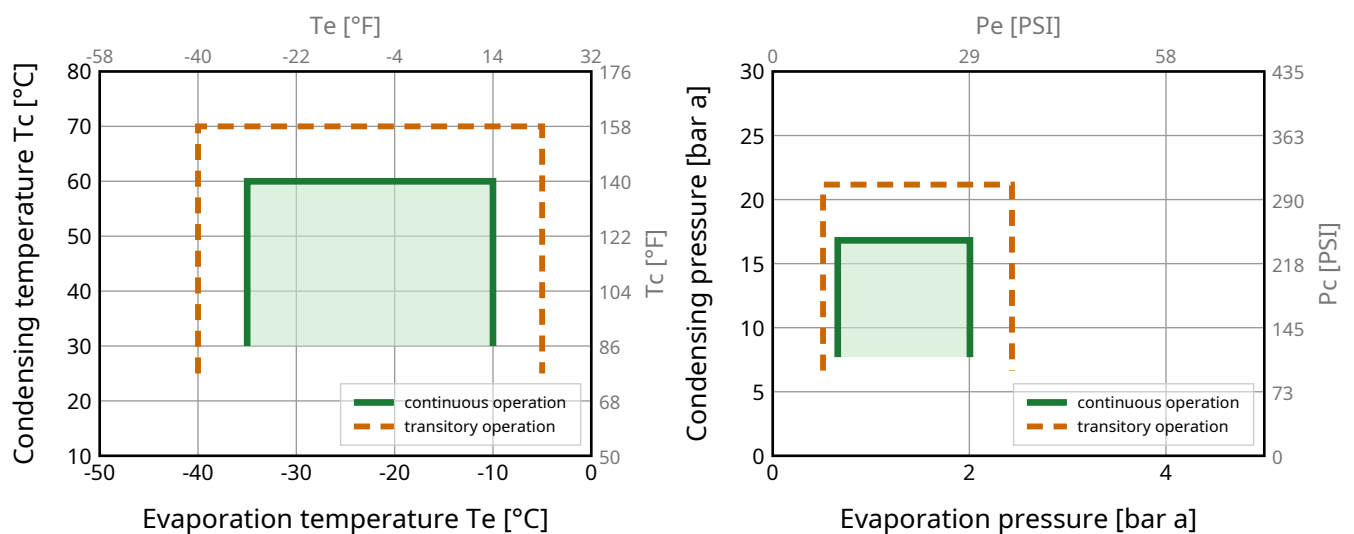
g protection screen for PTC 103N0476

Alternative components

a1 PTC starter (220V, 250Ohm, 4.8mm) 103N0018

a1 PTC starter (220V, 250Ohm, 6.3mm) 103N0016

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 Hz, RSIR, fan 1,5m/s

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[°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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