

Model
NLE10MF

Sales code:
105G6888

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	10.09 cm³ / 0.62cu.in
Compressors on pallet	80



General - Configurations With NLE10MF

-	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	CCC	CCC
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
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

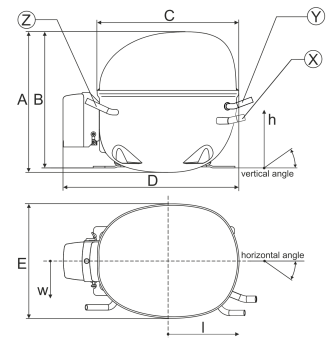
Oil type	POE	Winding resistance main	6.1 Ohm
Oil viscosity	19,2cSt	Winding resistance aux	16 Ohm
Oil quantity	295477 / 9991.26fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm3 / 79.80fl.oz	Max. discharge temp.	110°C / 230°F
Motor protection	internal		

Compressor Dimensions

Housing

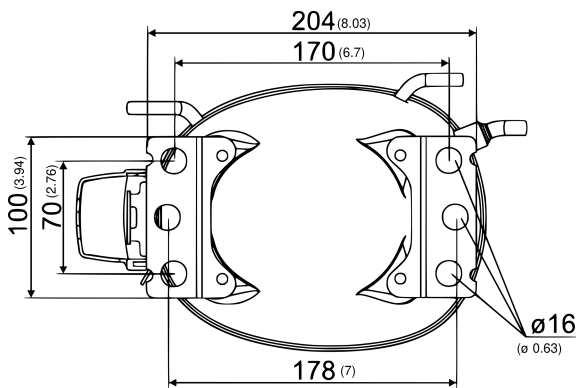
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

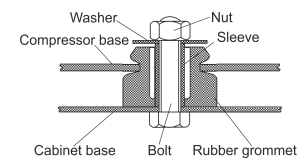


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

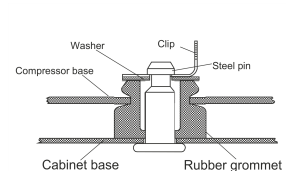
Mounting Accessories



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+MBP
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))	13.7 A
RLA (rated load amps / 1s/ U(N))	2.5 A
Cut in current (U(N))	13.7 A

Ambient/ machine room temperatures minimum /maximum

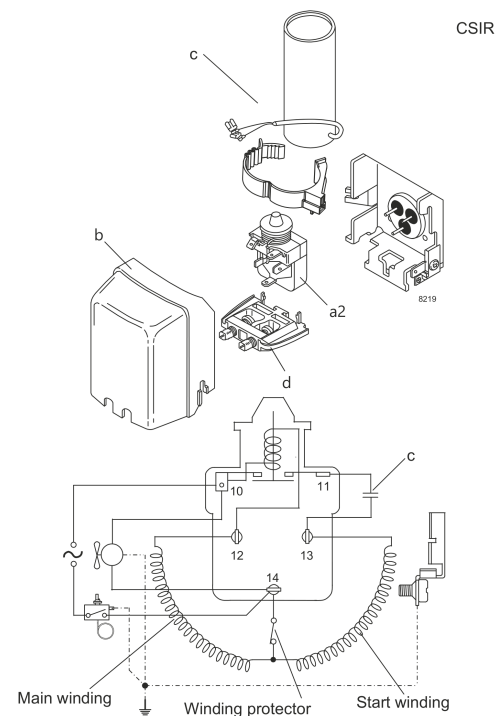
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components

a2 assy. relay 117U6003

c start capacitor (80µF) 117U5015

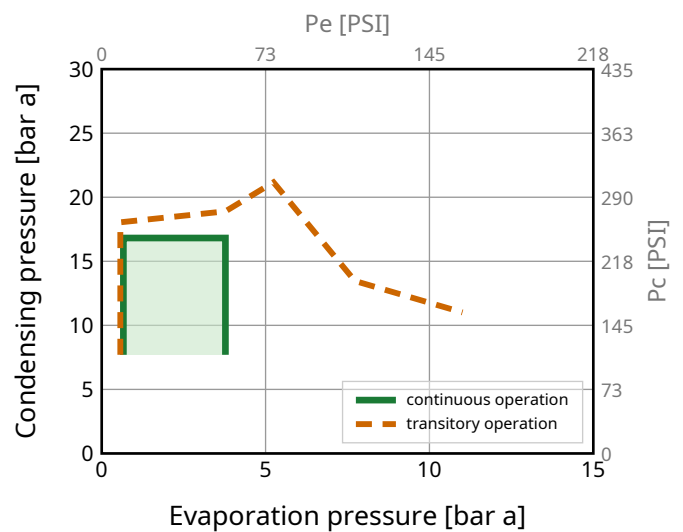
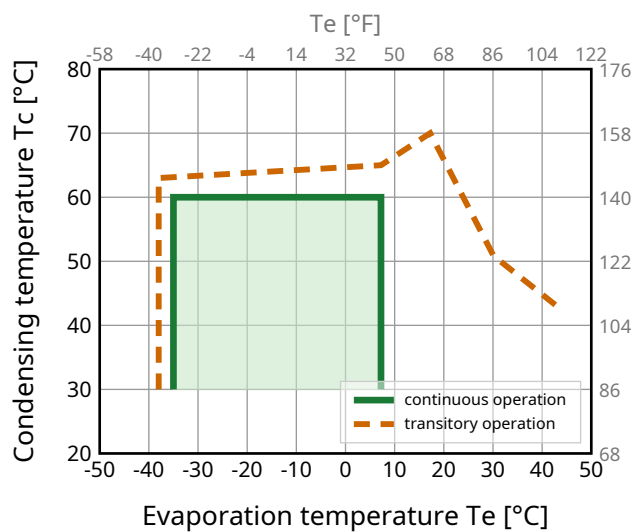
b plastic cover 103N2010

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

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	567	1936	488	1.71	5.82	332	2.10	12.36	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	440	1500	378	1.43	4.87	308	2.00	10.60	CECOMAF MBP
-10 14	45 113	20 68	45 113	497	1694	427	1.70	5.78	293	1.92	11.58	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	541	1847	466	1.68	5.74	322	2.05	13.30	ARI540 MBP
-10 14	45 113	32 89.6	45 113	514	1755	442	1.76	5.99	293	1.92	11.23	opt MBP 1
-25 -13	45 113	32 89.6	45 113	237	809	204	1.21	4.14	196	1.62	5.13	opt MBP 2

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	121	411	104	0.88	3.01	137	1.52	2.60
-30	-22	174	592	149	1.05	3.58	165	1.56	3.75
-20	-4	313	1069	270	1.38	4.71	227	1.70	6.79
-10	14	514	1755	442	1.76	5.99	293	1.92	11.23
0	32	796	2716	685	2.21	7.54	360	2.21	17.56
7.2	45	1060	3615	911	2.60	8.87	408	2.48	23.61

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

-35	-31	88	300	76	0.66	2.25	134	1.43	2.09
-30	-22	137	468	118	0.83	2.84	165	1.50	3.26
-20	-4	262	895	226	1.12	3.84	233	1.71	6.28
-10	14	440	1500	378	1.43	4.87	308	2.00	10.60
0	32	688	2348	592	1.78	6.08	386	2.36	16.78
7.2	45	922	3146	793	2.08	7.10	443	2.67	22.73

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Configuration 2

Sales code:
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Configuration

Motor configuration	RSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	LST
Approvals	CCC
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	13.7 A
RLA (rated load amps / 1s/ U(N))	2.5 A
Cut in current (U(N))	13.7 A

Ambient/ machine room temperatures minimum /maximum

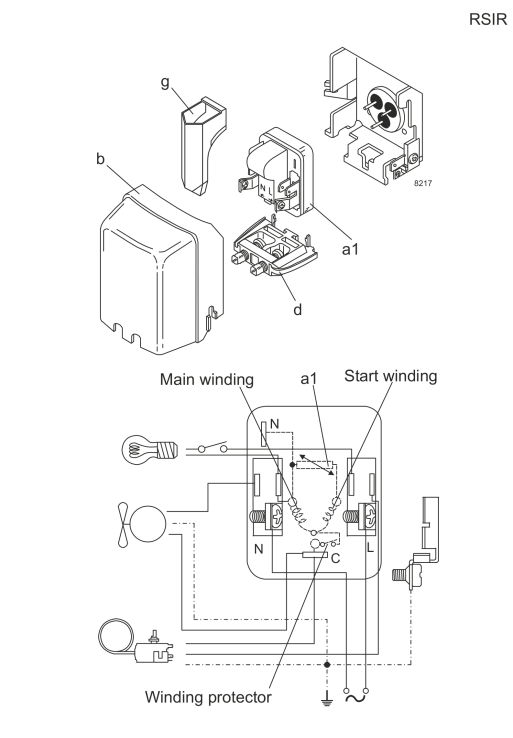
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System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components

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

b plastic cover 103N2010

d cord relief 103N1010

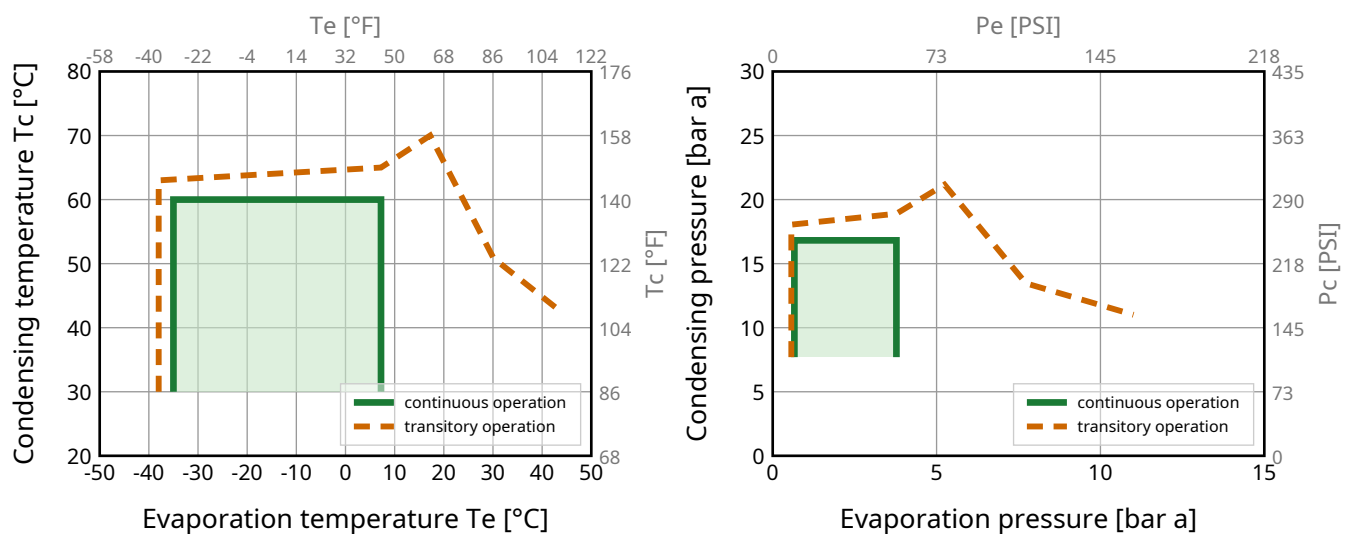
g protection screen for PTC 103N0476

Alternative components

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

b plastic cover 103N2011

Operation Pressure Range



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Configuration 2

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Standard Conditions

R134a, 220 V/50 Hz, RSIR, 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]	
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