

## Model

Designation	<b>NL11MF</b>	<b>220-240V/50Hz 1~</b>	Sales code:	<b>105G6151</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R134a</b>
Oil viscosity	32cSt	Displacement	11,15cm <sup>3</sup> / 0,68cu.in
Oil quantity	298cm <sup>3</sup> / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	600g / 21,2oz		
Free gas volume comp.	2360cm <sup>3</sup> / 79,8fl.oz		
Weight	10,5kg / 23,1lbs		
Motor protection	1# internal		
Winding resistance main	6,1Ω (at 25°C)		
Winding resistance aux	18,35Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



## General - Configurations with NL11MF

	<b>Conf. 1</b>	<b>Conf. 2</b>
Motor configuration	RSIR	CSIR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	187-254V	187-254V
Approvals	VDE, CCC, EAC	VDE, CCC, EAC
Starting torque	LST	HST
Note	- / -	

## Applications with NL11MF

	<b>Conf. 1</b>	<b>Conf. 2</b>
Refrigerant	R134a	R134a
Application	MBP+HBP	MBP+HBP
System cooling	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

## Electrical data - Configurations with NL11MF

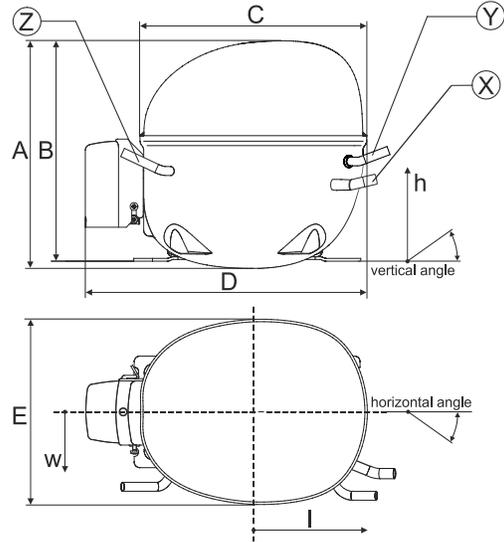
	<b>Conf. 1</b>	<b>Conf. 2</b>
Starting device type	PTC	relay
Run capacitor	-/-	-/-
Start capacitor	-/-	125μF
LRA (locked rotor amps / 4s/ U(N))	13A	16,6A
RLA (rated load amps / 1s/ U(N))	2,8A	2,8A
Cut in current (U(N))	17A	17A

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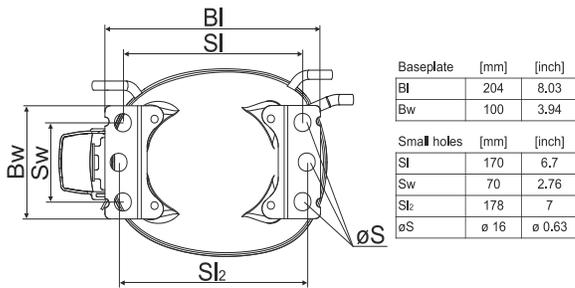
## Compressor dimensions

<b>Housing</b>	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

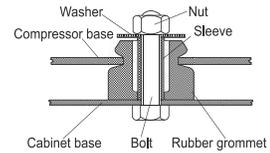


Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	35°	155°
Position l/h/w	[mm]	126/76/78	133/103/54	-107/94/72
	[in]	4,9/3/3,1	5,2/4/2,1	-4,2/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

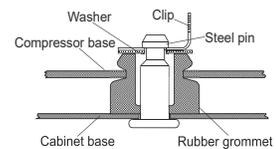
## Compressor fixation



### Bolt joint



### Snap-on



## Mounting accessories

	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

## Application notes

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

## Model

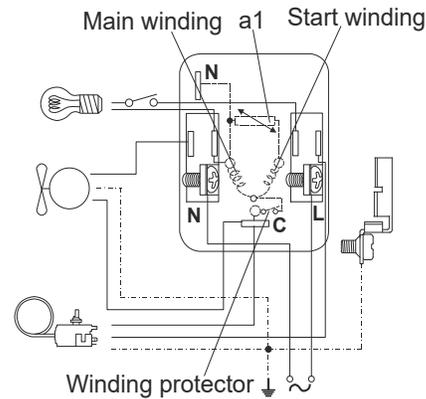
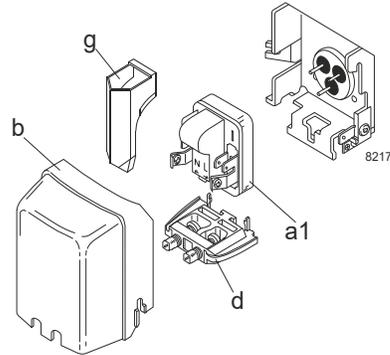
Designation **NL11MF** **220-240V/50Hz** Conf. 1 Sales code: **105G6151**

## Configuration

Motor configuration RSIR  
 Power supply (nominal) 220-240V/50Hz 1~  
 Refrigerant R134a  
 Application MBP+HBP  
 Voltage range 187-254V  
 Starting torque LST  
 Approvals VDE  
 CCC  
 EAC

## Electrical accessories / wiring diagram

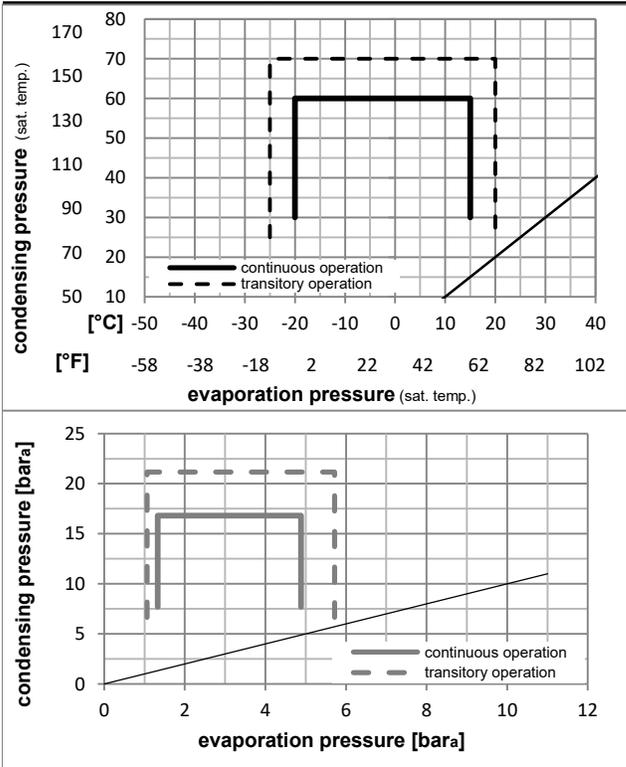
RSIR



## Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F  
 Machine room temperature range: 10 - 48°C / 50 - 119°F  
 Compressor cooling: fan 3m/s

## Operation pressure range



## Components

a1	PTC starter (220V, 250hm, 4.8mm)	103N0018
b	plastic cover	103N2011
d	cord relief	103N1010
g	protection screen for PTC	103N0476

## Alternative components

a1	PTC starter (220V, 250hm, 6.3mm)	103N0011
b	plastic cover	103N2010
d	cord relief	103N1010
g	protection screen for PTC	103N0476

## Model

Designation **NL11MF** **220-240V/50Hz** Conf. 1 Sales code: **105G6151**

## Optimization + standard conditions

R134a, 220V/50Hz, RSIR, fan 3m/s, VDE, CCC, EAC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.		Liquid temp.		Cooling capacity			COP	EER	Power consumption		
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	I	m				[W]	[A]	[kg/h]
[°C]	[°F]																			
7	45	54	130	35	95	46	115	1121,8	3831	965,4	2,19	7,48	1,88	512,2	2,91	24,89				ASHRAE HBP
5	41	55	131	32	90	55	131	926,8	3165	797,6	1,87	6,40	1,61	494,6	2,84	22,84				cecomaf HBP
5	41	50	122	20	68	50	122	953,8	3258	820,9	2,01	6,85	1,73	475,5	2,77	24,04				EN12900 HBP
-7	20	54	130	35	95	46	115	626,5	2140	539,2	1,61	5,51	1,39	388,4	2,46	13,67				ASHRAE MBP
-10	14	55	131	32	90	55	131	485,0	1656	417,4	1,35	4,60	1,16	360,0	2,37	11,73				cecomaf MBP
-10	14	45	113	20	68	45	113	546,1	1865	470,0	1,59	5,44	1,37	342,8	2,31	12,78				EN12900 MBP

## Performance tables

R134a, 220V/50Hz, RSIR, fan 3m/s, VDE, CCC, EAC

	pe		Cooling capacity			COP	EER	P1	I	m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-20	-4	347,6	1187	299,2	1,30	4,44	1,12	267,5	2,13	7,55
cond. pressure	-15	5	447,5	1528	385,1	1,47	5,01	1,26	304,8	2,21	9,75
pc= 45/113	-10	14	566,6	1935	487,6	1,65	5,64	1,42	342,8	2,31	12,40
return gas temp.	-5	23	707,6	2417	609,0	1,86	6,34	1,60	381,2	2,42	15,56
RGT= 32/90	0	32	873,3	2982	751,6	2,08	7,11	1,79	419,5	2,55	19,31
liquid temp	5	41	1066,2	3641	917,6	2,33	7,96	2,01	457,3	2,70	23,74
Tliq= 45/113	15	59	1544,2	5274	1328,9	2,91	9,95	2,51	529,8	3,03	34,98
[°C / °F]	-20	-4	292,0	997	251,3	1,06	3,63	0,92	274,5	2,14	7,00
cond. pressure	-15	5	380,1	1298	327,1	1,20	4,10	1,03	316,5	2,25	9,15
pc= 55/131	-10	14	485,0	1656	417,4	1,35	4,60	1,16	360,0	2,37	11,73
return gas temp	-5	23	609,3	2081	524,4	1,51	5,15	1,30	404,5	2,51	14,81
RGT= 32/90	0	32	755,7	2581	650,4	1,68	5,74	1,45	449,5	2,67	18,49
liquid temp	5	41	926,8	3165	797,6	1,87	6,40	1,61	494,6	2,84	22,84
Tliq= 55/131	15	59	1353,8	4623	1165,1	2,32	7,92	2,00	583,7	3,23	34,00

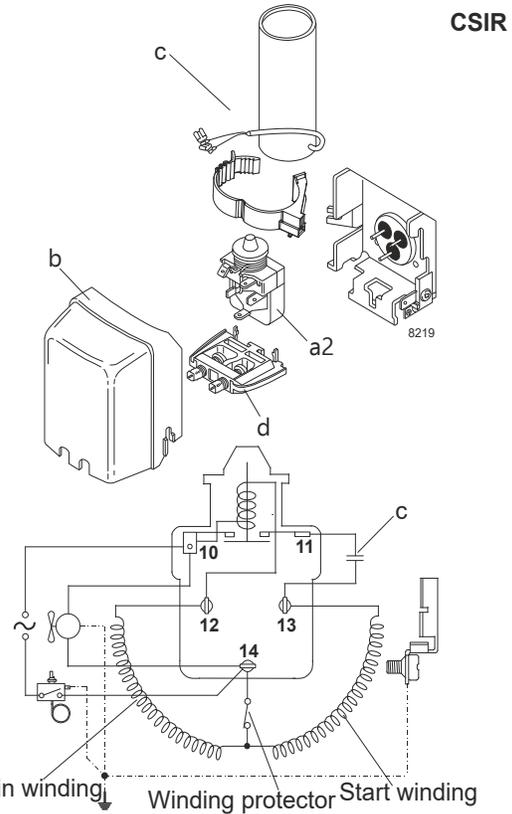
## Model

Designation **NL11MF** **220-240V/50Hz** Conf. 2 Sales code: **105G6151**

## Configuration

Motor configuration CSIR  
 Power supply (nominal) 220-240V/50Hz 1~  
 Refrigerant R134a  
 Application MBP+HBP  
 Voltage range 187-254V  
 Starting torque HST  
 Approvals VDE  
 CCC  
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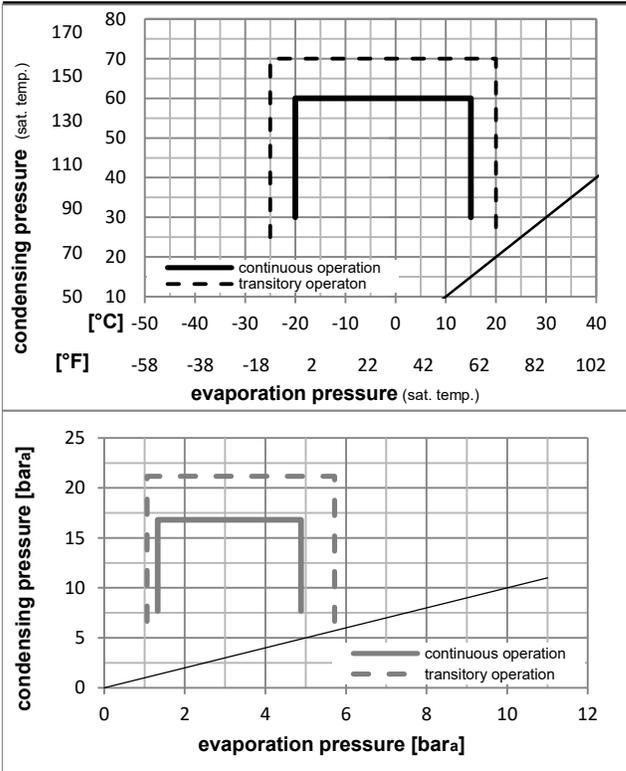
## Electrical accessories / wiring diagram



## Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F  
 Machine room temperature range: 10 - 48°C / 50 - 119°F  
 Compressor cooling: fan 3m/s

## Operation pressure range



## Components

a2	relay	117U6022
c	start capacitor	117U5018
b	plastic cover	103N2011
d	cord relief	103N1010

## Model

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## Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP			EER			Power consumption			Current consumption			Ref. mass flow		
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	ASHRAE HBP																	
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[°C / °F]	-20	-4	347,6	1187	299,2	1,30	4,44	1,12	267,5	2,13	7,55									
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