

## Model

Designation	<b>NL11MF</b>	220-240V/50Hz 1~	Sales code:	<b>105G6159</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	17,5Ω (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>
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	187-254V
Approvals	CCC, EAC, VDE
Starting torque	HST
Note	Electrical equipment will be pre-assembled to compressor.

## Applications with NL11MF

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

## Electrical data - Configurations with NL11MF

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

## Model

Designation

**NL11MF**

220-240V/50Hz 1~

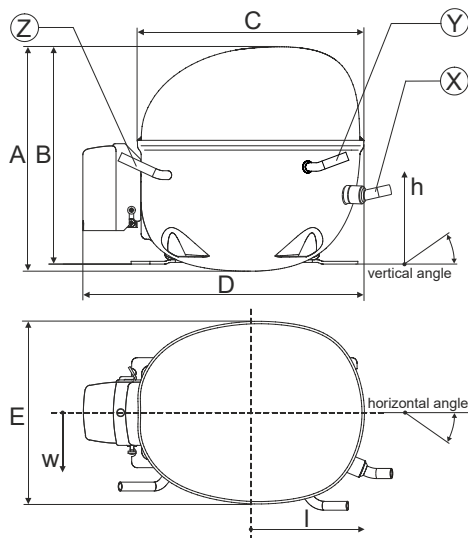
Sales code:

**105G6159**

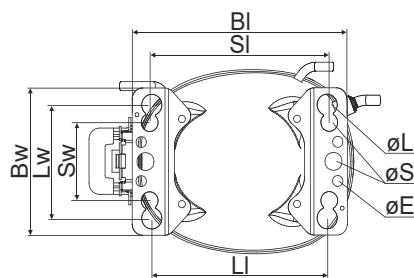
## Compressor dimensions

Housing	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 X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
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

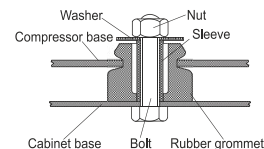


## Compressor fixation

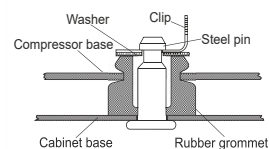


Baseplate	[mm]	[inch]
BI	204	8.03
BW	132	5.2
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
LW	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
øS	ø 16	ø 0.63

### 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	
Bolt joint   ø1/4"   ø19mm	118-1949	
Snap-on   ø7,3   ø16mm	118-1947	118-1919

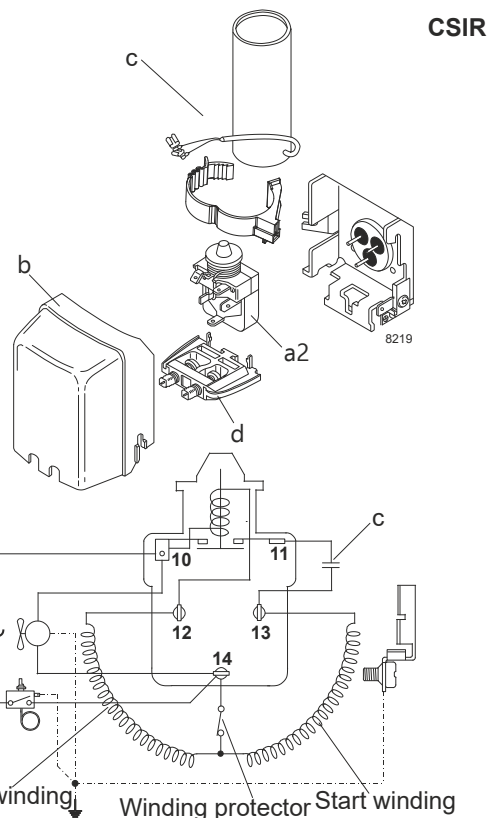
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## Configuration

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Refrigerant	R134a
Application	MBP+HBP
Voltage range	187-254V
Starting torque	HST
Approvals	CCC EAC VDE

## Electrical accessories / wiring diagram

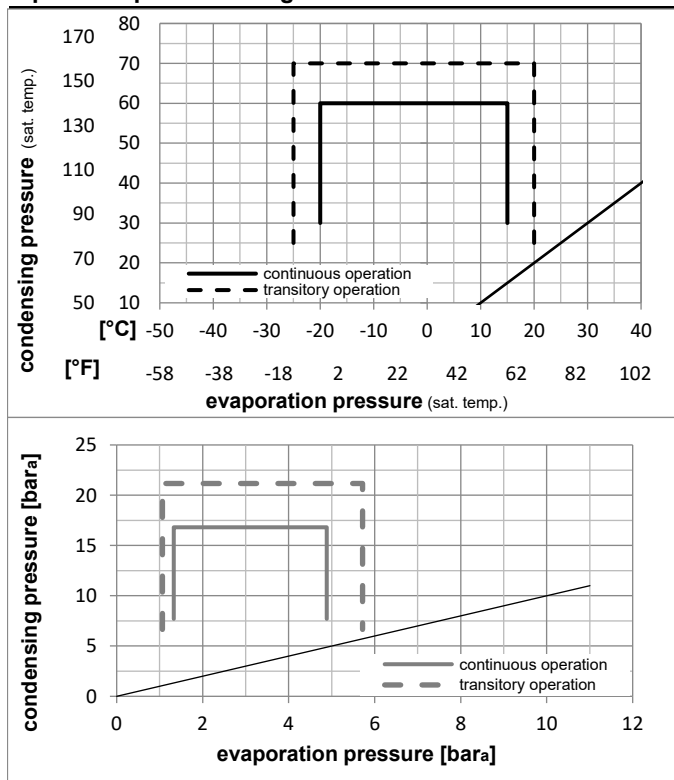


## Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	fan 3m/s
38°C / 100°F	n/a	fan 3m/s	fan 3m/s
43°C / 110°F	n/a	fan 3m/s	fan 3m/s

## Operation pressure range



## Components (will be pre-assembled)

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

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## Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption			ASHRAE HBP
pe		pc		RGT	Tliq		[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	Current consumption		Ref. mass flow	ASHRAE HBP				
[°C]	[°F]	[°C]	[°F]	[°C]	[°C]	[°C]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[A]	[kg/h]						
7,2	45	54	130	35	95	46	1121,8	3831	965,4	2,19	7,48	1,88	512,2	2,91	24,89							
5	41	55	131	32	90	55	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	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	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	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	546,1	1865	470,0	1,59	5,44	1,37	342,8	2,31	12,78					EN12900 MBP		

## Performance tables

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

	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