

## Single Pack NL11F 220-240V 50Hz CSIR

Single pack code number: **195B4113**

Position	Title	Code	Amount
1	Compressor NL11F	105G6900	1
2	Starting relay	117U6002	1
3	Starting capacitor (80 $\mu$ F 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Bolt joint for one compressor   M6   $\varnothing$ 16mm	118-1917	1

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## NL11F Standard Compressor R134a 220-240V 50Hz

### General

Code number	105G6900
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	80

### Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	60 (70)	-
Max. winding temperature continuous (short)	°C	125 (135)	-

### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F <sub>1</sub>	-	-	-	-	-
38°C		F <sub>1</sub>	-	-	-	-	-
43°C		-	-	-	-	-	-
Remarks on application:							

### Motor

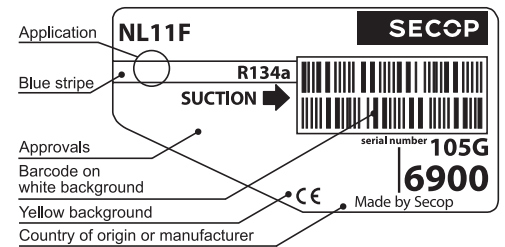
Motor type	RSIR/CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	10.4	9.2
Cut in Current, HST   LST	A	10.4	13.6
Resistance, main   start winding (25°C)	Ω	8.2	14.7

### Design

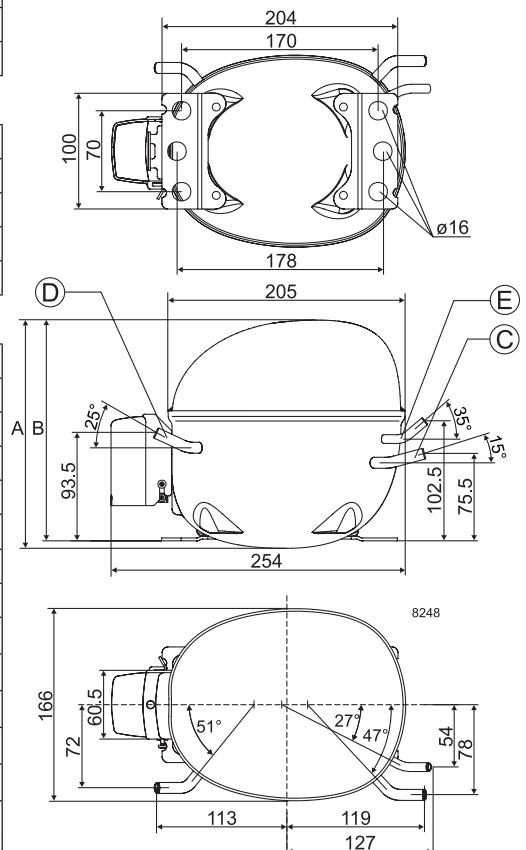
Displacement	cm <sup>3</sup>	11.15
Oil quantity (type)	cm <sup>3</sup>	300
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm <sup>3</sup>	2360
Weight without electrical equipment	kg	10.7

### Dimensions

Height	mm	A	203
		B	197
		B1	-
		B2	-
Suction connector	location/I.D. mm   angle	C	8.2   15°
	material   comment	Copper   Rubber plug	
Process connector	location/I.D. mm   angle	D	6.2   25°
	material   comment	Copper   Rubber plug	
Discharge connector	location/I.D. mm   angle	E	6.2   35°
	material   comment	Copper   Rubber plug	
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment	-	
Connector tolerance	I.D. mm		±0.09
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s  
(compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**EN 12900 Household (CECOMAF)** 220V, 50Hz, fan cooling F1

Evap. temp in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			102	146	200	222	268	351	453								
Power cons. in W			137	175	212	225	250	289	331								
Current cons. in A			1.41	1.46	1.54	1.58	1.66	1.82	2.01								
COP in W/W			0.75	0.83	0.94	0.99	1.07	1.22	1.37								

**ASHRAE LBP** 220V, 50Hz, fan cooling F1

Evap. temp in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			126	180	247	274	332	435	560								
Power cons. in W			138	175	212	224	249	287	329								
Current cons. in A			1.41	1.46	1.54	1.57	1.66	1.81	2.00								
COP in W/W			0.92	1.03	1.17	1.22	1.33	1.51	1.70								



Accessories for	NL11F	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0011
	4.8 mm spade connectors		103N0018
Starting relay	6.3 mm spade connectors	a2	117U6002
Start capacitor 80 µF	6.3 mm spade connectors	c	117U5015
Cover		b	103N2010
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	54.4°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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# NL Compressors





## Service/Repair – R600a, R290



8545

## 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)**

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