

# NLE9F

## Energy-optimized Compressor

### R134a

### 220-240V 50Hz

Data Sheet (Replaces CG.43.O1.02)

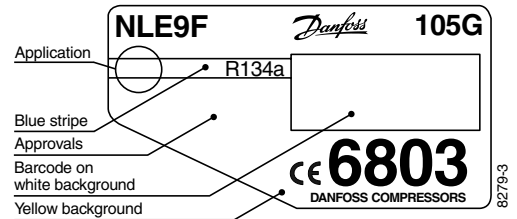
#### General

Compressor	<b>NLE9F</b>
Code number	105G6803
Code number	105G6805*)

\*) Performance data established on 8.2 mm suction line. Restrictions due to 6.2 mm suction line can affect system performance.

#### Application

Application	LBP	
Evaporating temperature range	°C	-35 to -10
Voltage range	V/Hz	198 - 254 /50
Motor type	RSIR/RSCR	
Max. ambient temperature	°C	38
Comp. cooling at ambient temp.	32°C	S
	38°C	S



- 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

#### Design

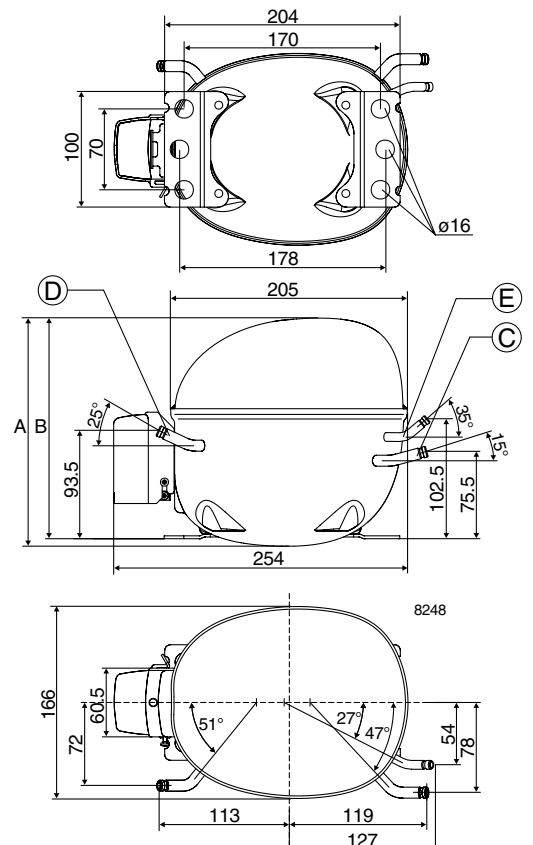
Displacement	cm <sup>3</sup>	8.35
Oil quantity	cm <sup>3</sup>	290
Maximum refrigerant charge	g	400
Free gas vol. in compressor	cm <sup>3</sup>	2310
Weight without electrical equipment	kg	10.1

#### Motor

Motor size	watt	165
LRA (rated after 4 sec. UL984) LST	A	6.4
Cut-in current LST	A	10.7
Resistance, main and start winding (25°C)	Ω	12.9/18.0
Approvals	EN 60335-2-34 with Annex AA	

#### Dimensions

		105G6803	105G6805
Height	mm	A	197
		B	191
Suction connector	location/I.D. mm	C	8.2 ±0.09
Process connector	location/I.D. mm	D	6.2 ±0.09
Discharge connector	location/I.D. mm	E	6.2 ±0.09
Compressors on a pallet	pcs.	80	



**Capacity (EN 12900/CECOMAF)**

**watt**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	82	112	154	171	207	271	346

**Capacity (ASHRAE)**

**watt**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	101	138	190	210	255	334	427

**Power consumption**

**watt**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	102	125	150	159	177	206	237

**Current consumption**

**A**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	0.85	0.95	1.09	1.15	1.27	1.48	1.73

**COP (EN 12900/CECOMAF)**

**W/W**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	0.80	0.90	1.03	1.08	1.17	1.31	1.46

**COP (ASHRAE)**

**W/W**

Comp.\°C	-35	-30	-25	-23.3	-20	-15	-10
NLE9F	0.99	1.11	1.27	1.32	1.44	1.62	1.80

Test conditions  
 Condensing temperature 55°C  
 Ambient and suction gas temp. 32°C  
 Liquid temperature 55°C  
 Static cooling, 220V 50Hz,  
 PTC consumption incl.

EN 12900/CECOMAF

ASHRAE

**Accessories**

Devices	Fig.	NLE9F
PTC starting device	6.3 mm spades	a1 103N0011
	4.8 mm spades	(pos.1) 103N0018
PTC starting device	6.3 mm spades	a1 103N0016
	4.8 mm spades	(pos.2) 103N0021
Cover	b	103N2010
Cord relief	d	103N1010
Run capacitor 4 µF (optional)	6.3 mm spades	e 117-7117
	4.8 mm spades	e 117-7119
Protection screen for PTC	g	103N0476
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919

