

# NLY9FK High Energy-optimized Compressor R134a 220-240V 50Hz

Application <b>NLY9FK</b>	$\mathcal{D}^{a}$	<u>nfoss</u>	105G
Blue stripe SUCTION CONNECT Approvals		serial	number
Barcode on white background	$\sim$	-	S COMPRESSORS
Yellow background		DANFOS	S COMPRESSORS
Country of origin on type lab			

General	
Code number	105G6814
Approvals	EN 60335-2-34 with Annex AA
Compressors on pallet	80

## Application

**Cooling requirements** 

Remarks on application:

Frequency

Application

32°C

38°C

43°C

	LBP				
Hz	50	60			
°C	-35 to -10	-			
V	198 - 254	-			
°C	60 (70)	_			
°C	125 (135)	_			
	°C V °C	Figure 1 Figure 2   Y 198 - 254   C 60 (70)			

Hz

LBP MBP HBP LBP MBP HBP

s | -

S

S

50

- | - | - | -

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### = Static cooling normally sufficient

= O<mark>il c</mark>ooling

S

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F<sub>2</sub>

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60

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- $F_1 = Fan \text{ cooling } 1.5 \text{ m/s}$ 
  - (compressor compartment temperature equal to ambient temperature)
  - = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficent
  - = not applicable in this area

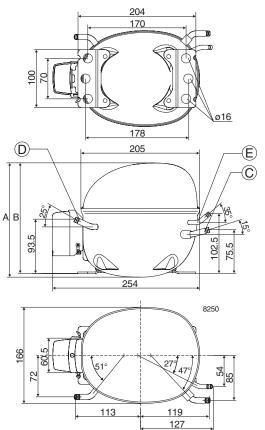
#### Motor

Motor type		RS	SCR
LRA (rated after 4 sec. UL984), HST   LST	A	-	6.1
Cut in Current, HST   LST	A	-	11.3
Resistance, main   start winding (25°C)	Ω	11.0	9.0

## Design

Displacement	cm <sup>3</sup>	8.35
Oil quantity (type)	cm <sup>3</sup>	290 (polyolester)
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm <sup>3</sup>	2310
Weight without electrical equipment	kg	10.8

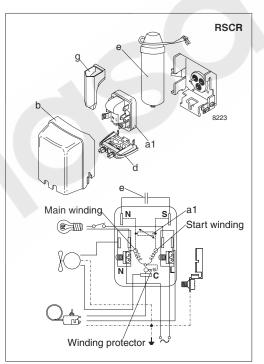
Height	mm	Α	203
		В	197
		B1	_
		B2	_
Suction connector	location/I.D. mm   angle	С	6.5   15°
	material   comment		Cu-plated steel   Al caps
Process connector	location/I.D. mm   angle	D	6.5   25°
	material   comment		Cu-plated steel   Al caps
Discharge connector	location/I.D. mm   angle	Е	5.0   35°
	material   comment		Cu-plated steel   Al caps
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		_
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20



#### Dimensi

EN 12900 Household (CECOMAF)		220V, 50Hz, RC 4µF, 2W PTC consumption incl., static cooling															
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			92	128	171	188	225	291	372								
Power cons. in W			108	129	151	160	176	203	232								
Current cons. in A			0.58	0.68	0.79	0.82	0.90	1.03	1.16								
COP in W/W			0.86	0.99	1.13	1.18	1.28	1.43	1.60								

ASHRAE LBP 220V, 50Hz, RC 4µF, 2W PTC consumption incl., static cooling																	
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			114	158	212	233	279	361	461								
Power cons. in W			108	128	151	159	176	203	231								
Current cons. in A			0.58	0.68	0.79	0.82	0.90	1.03	1.16								
COP in W/W			1.06	1.23	1.40	1.47	1.59	1.78	1.99								



Accessories for	NLY9FK	Figure	Code number	Test conditions	EN 12900/CECOMA	F ASHRAE
PTC starting device	6.3 mm spade connectors		103N0016	Condensing temperature	55°C	54.4°C
	4.8 mm spade connectors	a1	103N0021	Ambient temperature	32°C	32°C
ePTC starting device	4.8 mm spade connectors		103N0050	Suction gas temperature	32°C	32°C
Cover		b	103N2010	Liquid temperature	no subcooling	32°C
Cord relief		d	103N1010			
Run capacitor 4 µF	6.3 mm spade connectors		117-7117	Mounting accessories		Code number
(compulsory)	4.8 mm spade connectors	e	117-7119	Bolt joint for one compressor	Ø: 16 mm	118-1917
Protection screen for PT	ГС	g	103N0476	Bolt joint in quantities	Ø: 16 mm	118-1918
				Snap-on in quantities	Ø: 16 mm	118-1919

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