

# NLX10KK.1

## High Energy-optimized Compressor

### R600a

### 220-240V 50Hz

#### General

Code number	105H6104
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	105 (135)	-

#### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		S	-	-	-	-	-
38°C		S	-	-	-	-	-
43°C		S	-	-	-	-	-
Remarks on application:							

#### Motor

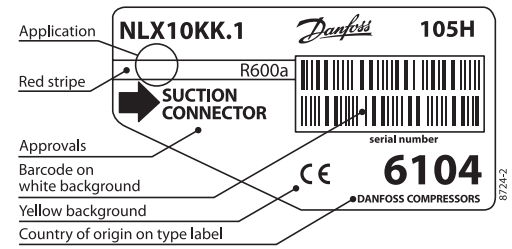
Motor type	RSCR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	3.2
Cut in Current, HST   LST	A	-	6.1
Resistance, main   start winding (25°C)	Ω	27.8	39.9

#### Design

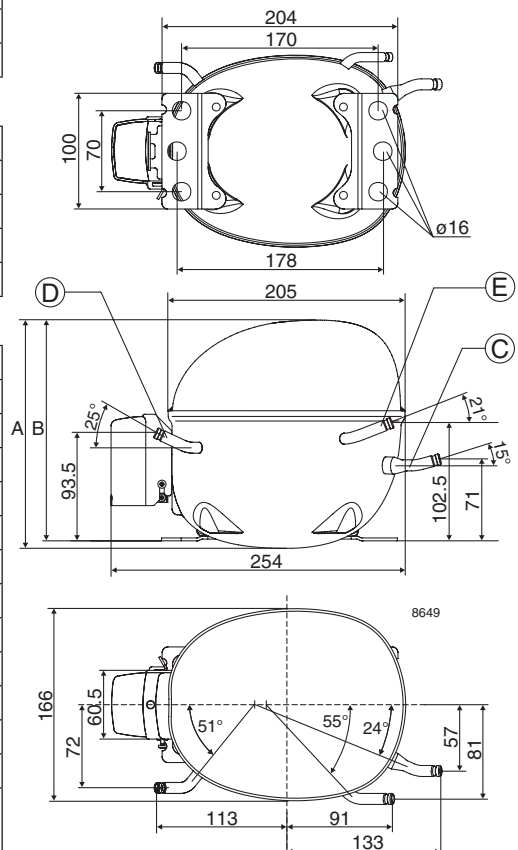
Displacement	cm <sup>3</sup>	10.09
Oil quantity (type)	cm <sup>3</sup>	270 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	2360
Weight without electrical equipment	kg	10.7

#### Dimensions

Height	mm	A	203
		B	197
		B1	-
		B2	-
Suction connector	location/I.D. mm   angle	C	6.2   15°
	material   comment		Cu-plated steel   Al caps
Process connector	location/I.D. mm   angle	D	6.2   25°
	material   comment		Cu-plated steel   Al caps
Discharge connector	location/I.D. mm   angle	E	5.0   21°
	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
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

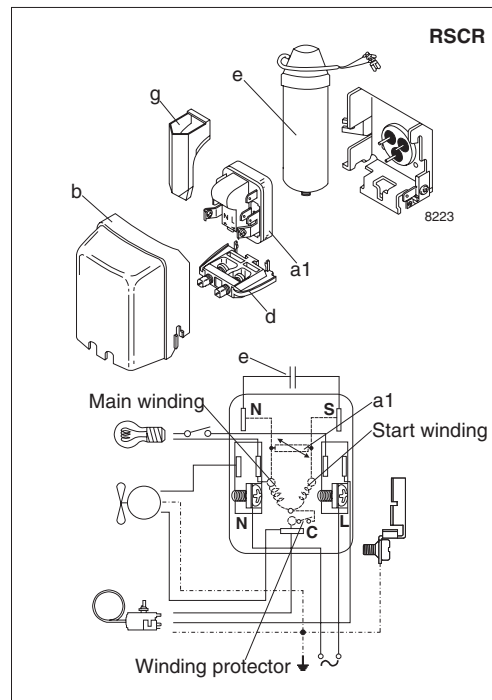


**EN 12900 Household (CECOMAF)** 220V, 50Hz, RC 3µF, 2W PTC consumption incl., static cooling

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			67.2	94.8	128	141	168	215	270								
Power cons. in W			66.0	80.2	94.0	98.8	108	123	140								
Current cons. in A			0.31	0.38	0.44	0.46	0.51	0.58	0.66								
COP in W/W			1.02	1.18	1.36	1.42	1.55	1.74	1.93								

**ASHRAE LBP** 220V, 50Hz, RC 3µF, 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			82.4	116	157	172	205	262	330								
Power cons. in W			66.3	80.3	93.9	98.6	108	123	140								
Current cons. in A			0.31	0.38	0.44	0.46	0.51	0.58	0.66								
COP in W/W			1.24	1.45	1.67	1.75	1.90	2.14	2.36								



Accessories for	NLX10KK.1	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0016
	4.8 mm spade connectors		103N0021
ePTC starting device	4.8 mm spade connectors		103N0050
Cover		b	103N2010
Cord relief		d	103N1010
Run capacitor 3 µF (compulsory)	6.3 mm spade connectors	e	117-7131
	4.8 mm spade connectors		117-7132
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	54.4°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 compressor	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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