

## NLU8.0KK.1 High Energy-optimized Compressor R600a 220-240V 50Hz

### General

Code number	105H6018
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 (115)	-

### 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

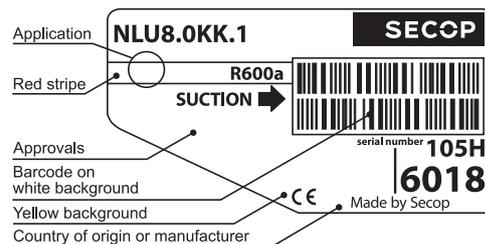
Motor type	RSCR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	2.5
Cut in Current, HST   LST	A	-	5.4
Resistance, main   start winding (25°C)	Ω	26.0	23.0

### Design

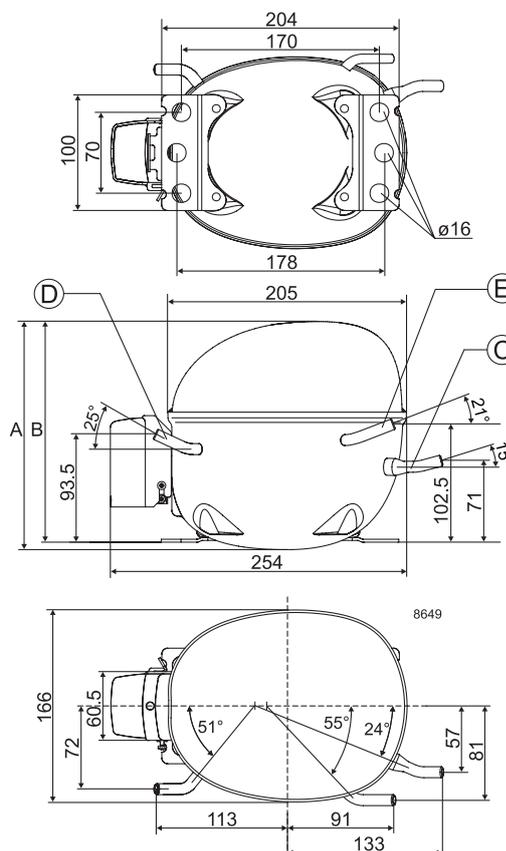
Displacement	cm <sup>3</sup>	8.05
Oil quantity (type)	cm <sup>3</sup>	270 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm <sup>3</sup>	2360
Weight without electrical equipment	kg	12.1

### Dimensions

Height	mm	A	203
		B	197
		B1	-
		B2	-
Suction connector	location/I.D. mm   angle	C	6.2   30°
	material   comment		Copper   Rubber plug
Process connector	location/I.D. mm   angle	D	4.5   55°
	material   comment		Copper   Rubber plug
Discharge connector	location/I.D. mm   angle	E	5.0   21°
	material   comment		Copper   Rubber plug
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: Suction connector bent to 30°, process connector bent to 55°			



- 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

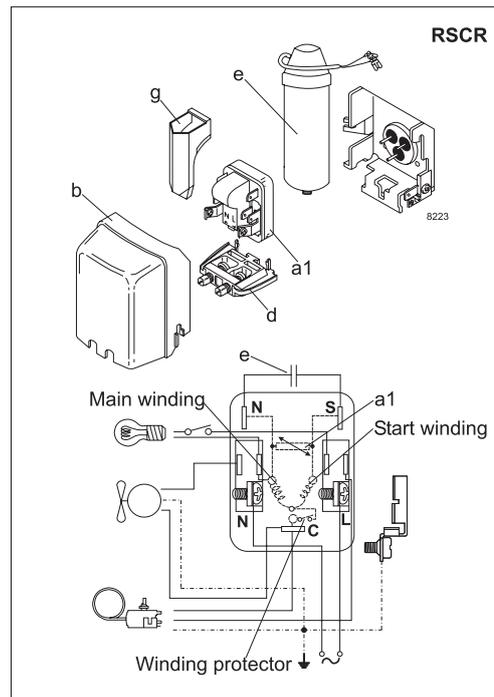


**EN 12900 Household (CECOMAF)** 220V, 50Hz, RC 2.5 µF, ePTC consumption incl., static cooling

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			51.0	71.0	95.0	104	124	158	198								
Power cons. in W			43.2	52.9	63.0	65.9	72.4	83.0	94.0								
Current cons. in A			0.19	0.24	0.32	0.30	0.33	0.38	0.43								
COP in W/W			1.18	1.34	1.52	1.58	1.71	1.91	2.12								

**ASHRAE LBP** 220V, 50Hz, RC 2.5 µF, ePTC 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			62.5	87.0	116	127	151	193	242								
Power cons. in W			43.3	52.9	62.4	66.0	72.2	82.0	93.0								
Current cons. in A			0.20	0.24	0.28	0.32	0.33	0.38	0.43								
COP in W/W			1.44	1.64	1.86	1.93	2.10	2.34	2.60								



Accessories for	NLU8.0KK.1	Figure	Code number	Test conditions	EN 12900/ CECOMAF	ASHRAE LBP
PTC starting device	6.3 mm spade connectors	a1	-	Condensing temperature	55°C	54.4°C
	4.8 mm spade connectors		103N0021	Ambient temperature	32°C	32°C
ePTC starting device	4.8 mm spade connectors		103N0055	Suction gas temperature	32°C	32°C
Cover		b	103N2010	Liquid temperature	no subcooling	32°C
Run capacitor 2.5 µF (compulsory)	6.3 mm spade connectors	e	-	<b>Mounting accessories</b>		
	4.8 mm spade connectors		117-7139	<b>Code number</b>		
Cord relief		d	103N1010	Bolt joint for one comp.	Ø: 16 mm	118-1917
Protection screen for PTC		g	103N0476	Bolt joint in quantities	Ø: 16 mm	118-1918
				Snap-on in quantities	Ø: 16 mm	118-1919

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