

## NL6.1MF Standard Compressor R134a 220-240V 50Hz & 208-230V 60Hz

### General

Code number	105G6660
Approvals	EN 60335-2-34, UL984
Compressors on pallet	80

### Application

Application	MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°C	-20 to 15	-35 to 7.2	
Voltage range	V	187 - 254	198 - 254	
Max. condensing temperature continuous (short)	°C	60 (70)	60 (70)	
Max. winding temperature continuous (short)	°C	125 (135)	125 (135)	

### Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
32°C		-	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	-
38°C		-	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	-
43°C		-	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	F <sub>1</sub>	-

Remarks on application: F<sub>2</sub> for 230-240V 50Hz nominal below -12°C evaporating temp. CSIR strongly recommended for 60Hz

### Motor

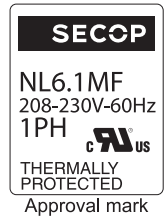
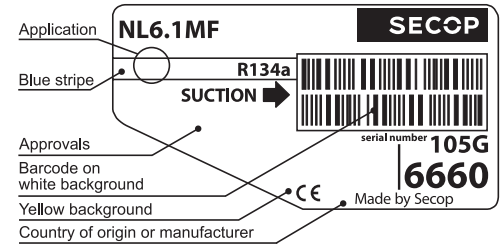
Motor type	RSIR/CSIR	
LRA (rated after 4 sec. UL984), HST   LST	A	9.2   8.0
Cut in Current, HST   LST	A	9.2   12.2
Resistance, main   start winding (25°C)	Ω	10.2   16.4

### Design

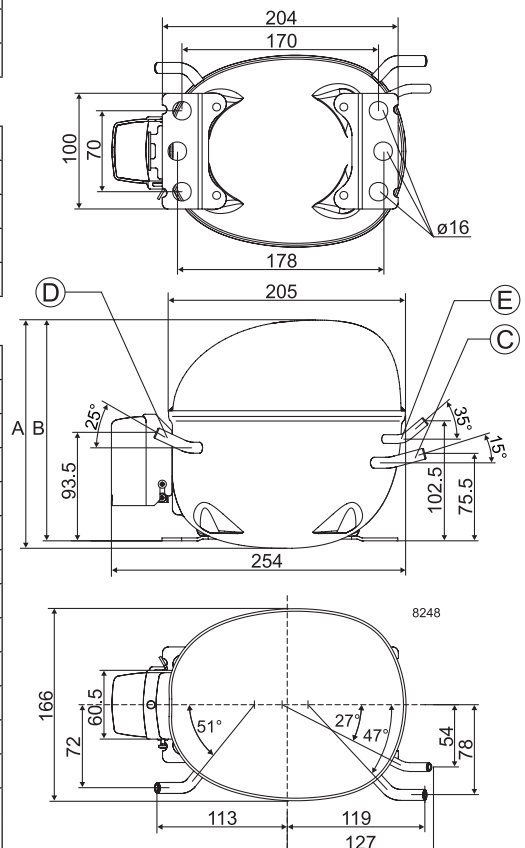
Displacement	cm <sup>3</sup>	6.13
Oil quantity (type)	cm <sup>3</sup>	320 (polyolester)
Maximum refrigerant charge	g	600
Free gas volume in compressor	cm <sup>3</sup>	2360
Weight without electrical equipment	kg	10.5

### Dimensions

Height	mm	A	190
		B	184
		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 F<sub>1</sub>

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							141	189	245	288	312	390	482	527	588	709	
Power cons. in W							150	169	187	200	206	224	243	252	263	283	
Current cons. in A							1.35	1.39	1.43	1.46	1.48	1.54	1.60	1.63	1.67	1.75	
COP in W/W							0.94	1.12	1.31	1.44	1.51	1.74	1.98	2.09	2.24	2.51	

**EN 12900 Household (CECOMAF)** 220V, 60Hz, fan cooling F<sub>1</sub>

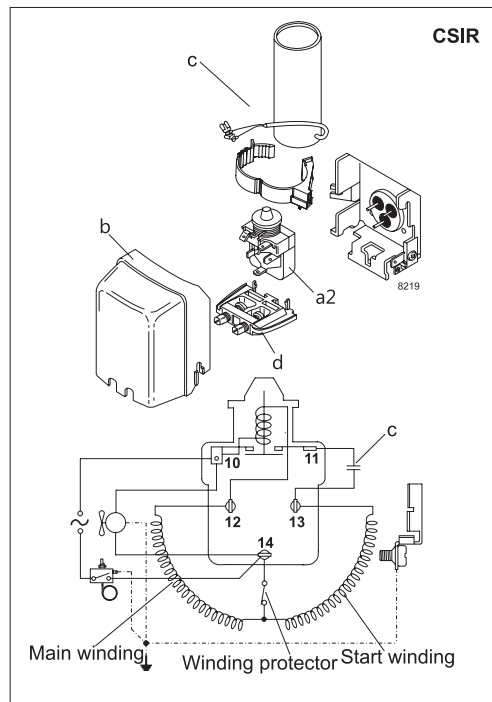
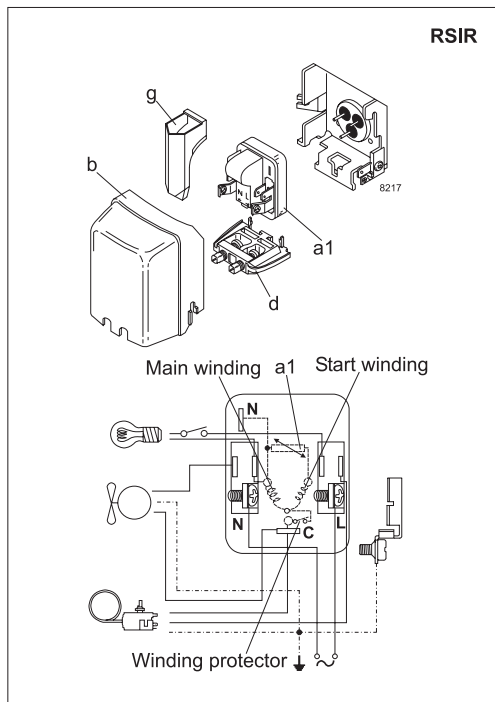
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			43	77	117	132	165	223	292	344	374	470	581	636			
Power cons. in W			78	105	132	141	160	189	218	237	247	276	306	319			
Current cons. in A			0.91	0.99	1.08	1.11	1.17	1.26	1.37	1.44	1.48	1.60	1.73	1.78			
COP in W/W			0.55	0.73	0.89	0.94	1.03	1.18	1.34	1.45	1.51	1.70	1.90	2.00			

**ASHRAE MBP** 220V, 50Hz, fan cooling F<sub>1</sub>

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							156	209	271	318	345	432	533	582	650	784	
Power cons. in W							150	168	187	199	205	224	242	251	261	281	
Current cons. in A							1.35	1.39	1.43	1.46	1.48	1.54	1.60	1.63	1.67	1.75	
COP in W/W							1.04	1.24	1.45	1.60	1.68	1.93	2.20	2.32	2.48	2.78	

**ASHRAE MBP** 220V, 60Hz, fan cooling F<sub>1</sub>

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			49	86	130	147	183	247	323	381	414	520	643	703			
Power cons. in W			79	105	132	142	160	188	217	236	246	275	304	317			
Current cons. in A			0.92	0.99	1.08	1.11	1.17	1.26	1.37	1.44	1.48	1.60	1.72	1.78			
COP in W/W			0.62	0.82	0.98	1.04	1.15	1.31	1.49	1.62	1.68	1.89	2.12	2.22			



Accessories for	NL6.1MF	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	117U6015
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5015
Cover		b	103N2011
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	54.4°C
Ambient temperature	32°C	35°C
Suction gas temperature	32°C	35°C
Liquid temperature	no subcooling	46.1°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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