

NLE10MF

Energy-optimized Compressor

R134a

220-240V 50Hz

General

Code number	105G6888
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

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

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F ₁	F ₁	–	–	–	–
38°C		F ₁	F ₁	–	–	–	–
43°C		F ₁	F ₁	–	–	–	–
Remarks on application:							

Motor

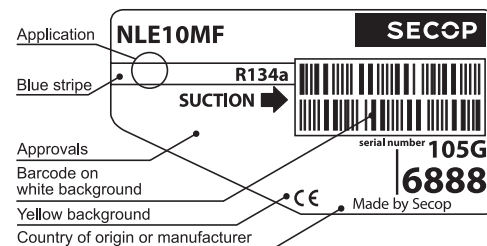
Motor type	RSIR/CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	13.7	12.1
Cut in Current, HST LST	A	13.7	15.6
Resistance, main start winding (25°C)	Ω	6.1	16.0

Design

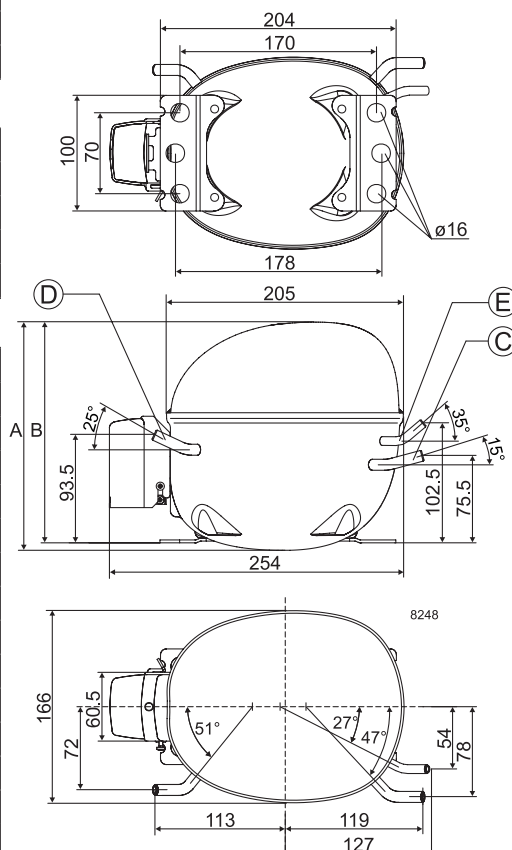
Displacement	cm ³	10.10
Oil quantity (type)	cm ³	320 (polyolester)
Maximum refrigerant charge	g	600
Free gas volume in compressor	cm ³	2360
Weight without electrical equipment	kg	10.5

Dimensions

Height	mm	A	203
		B	197
		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
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = 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 F₁

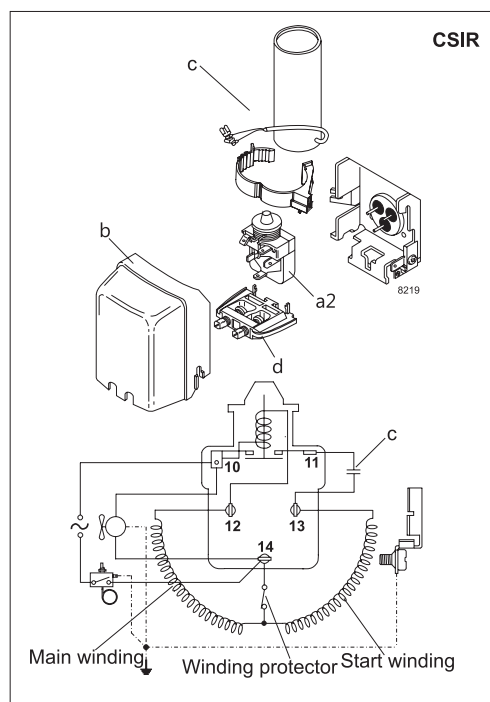
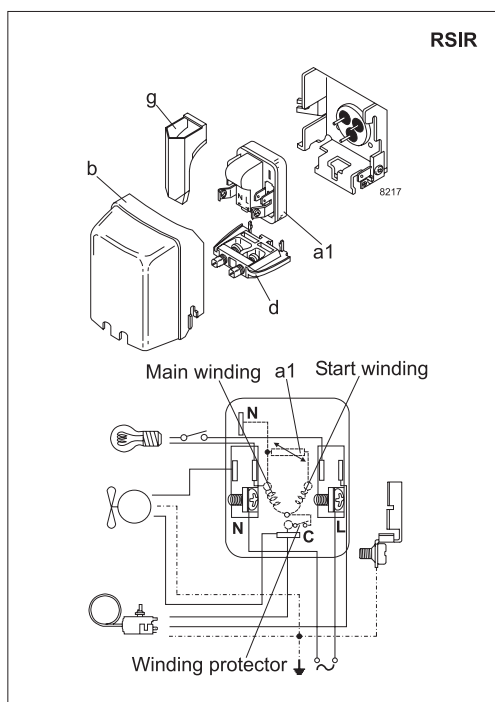
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			88.0	137	194	216	262	343	440	513	554	688	845	922			
Power cons. in W			134	165	198	210	233	270	308	334	347	386	426	443			
Current cons. in A			1.43	1.50	1.60	1.63	1.71	1.84	2.00	2.11	2.17	2.36	2.57	2.67			
COP in W/W			0.66	0.83	0.98	1.03	1.13	1.27	1.43	1.54	1.60	1.78	1.98	2.08			

ASHRAE MBP220V, 50Hz, fan cooling F₁

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			98.1	152	215	239	290	379	485	566	611	759	933	1018			
Power cons. in W			134	165	198	209	233	269	307	332	346	385	424	441			
Current cons. in A			1.44	1.51	1.60	1.63	1.71	1.84	1.99	2.10	2.16	2.35	2.56	2.66			
COP in W/W			0.73	0.92	1.09	1.14	1.25	1.41	1.58	1.70	1.77	1.97	2.20	2.31			

ASHRAE LBP220V, 50Hz, fan cooling F₁

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			110	171	241	268	326	426	545	636	687	855	1051	1148			
Power cons. in W			134	165	198	209	233	269	307	332	346	385	424	441			
Current cons. in A			1.44	1.51	1.60	1.63	1.71	1.84	1.99	2.10	2.16	2.35	2.56	2.66			
COP in W/W			0.82	1.04	1.22	1.28	1.40	1.58	1.78	1.91	1.99	2.22	2.48	2.60			



Accessories for	NLE10MF	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	117U6003
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 MBP	ASHRAE LBP
Condensing temperature	55°C	54.4°C	54.4°C
Ambient temperature	32°C	35°C	32°C
Suction gas temperature	32°C	35°C	32°C
Liquid temperature	no subcooling	46.1°C	32°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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