

# NL9FT Tropical Compressor R134a 220-240V 50Hz

## General

Code number	105G6828
Approvals	EN 60335-2-34, CCC
Compressors on pallet	80

## Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -10	-
Voltage range	V	187 - 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		S	-	-	-	-	-
38°C		F <sub>1</sub>	-	-	-	-	-
43°C		F <sub>1</sub>	-	-	-	-	-

Remarks on application: In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

## Motor

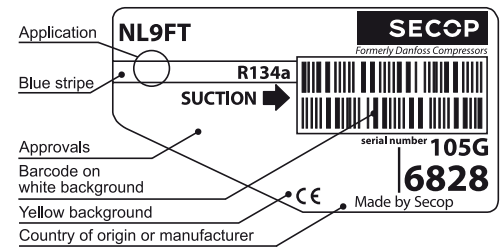
Motor type	RSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	8.2	8.1
Cut in Current, HST   LST	A	8.2	12.8
Resistance, main   start winding (25°C)	Ω	8.9	12.0

## Design

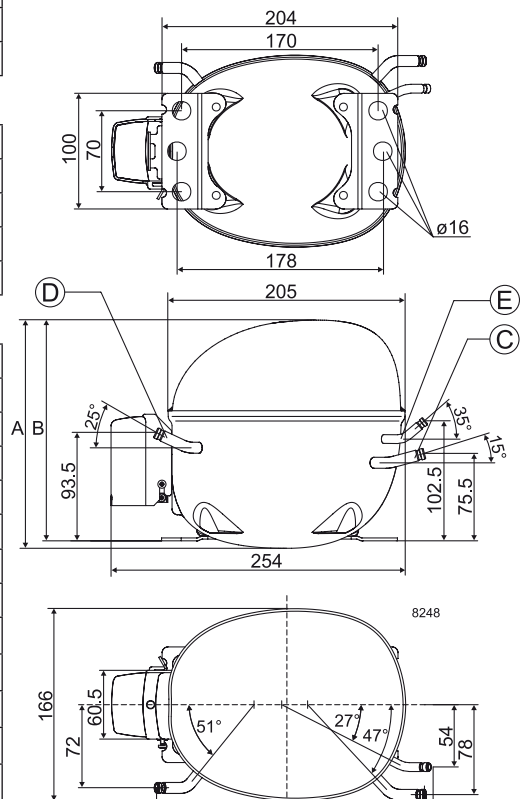
Displacement	cm <sup>3</sup>	8.35
Oil quantity (type)	cm <sup>3</sup>	320
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm <sup>3</sup>	2360
Weight without electrical equipment	kg	10.0

## Dimensions

Height	mm	A	197
		B	191
		B1	-
		B2	-
Suction connector	location/I.D. mm   angle	C	6.2   15°
	material   comment		Cu-plated steel   Al cap
Process connector	location/I.D. mm   angle	D	6.2   25°
	material   comment		Cu-plated steel   Al cap
Discharge connector	location/I.D. mm   angle	E	5.0   35°
	material   comment		Cu-plated steel   Al cap
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

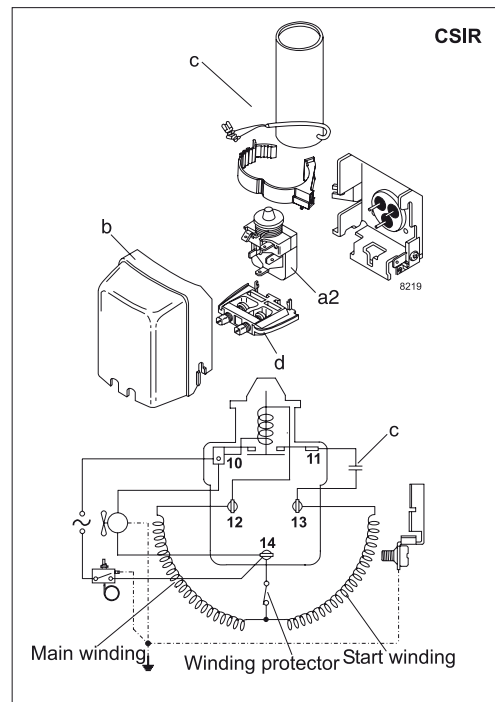
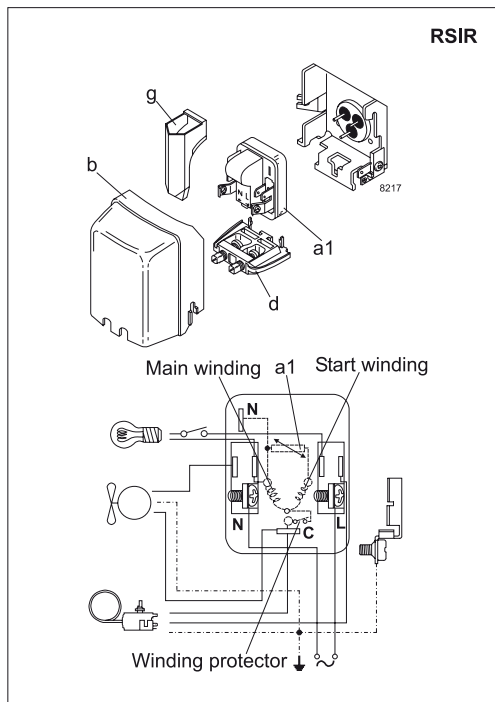


**EN 12900 Household (CECOMAF)** 220V, 50Hz, static cooling, PTC consumption incl.

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			87	120	162	178	213	275	350								
Power cons. in W			127	146	169	178	195	223	252								
Current cons. in A			1.18	1.22	1.28	1.30	1.36	1.45	1.55								
COP in W/W			0.69	0.82	0.95	1.00	1.09	1.24	1.39								

**ASHRAE LBP** 220V, 50Hz, static cooling, PTC consumption incl.

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			107	148	199	219	262	339	432								
Power cons. in W			127	146	169	178	195	223	252								
Current cons. in A			1.18	1.22	1.28	1.30	1.36	1.45	1.55								
COP in W/W			0.84	1.01	1.17	1.23	1.34	1.52	1.72								



Accessories for	NL9FT	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	103N2010
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

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