

NL8.4FT Tropical Compressor R134a 220-240V 50Hz

General

Code number	105G6041
Approvals	EN 60335-2-34
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		O	-	-	-	-	-
43°C		O	-	-	-	-	-

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

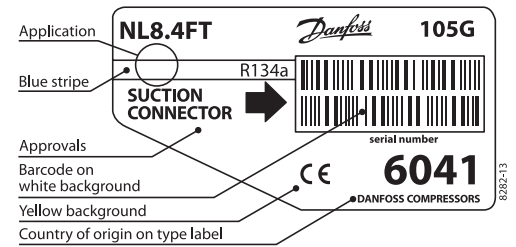
Motor type		RSIR/CSIR	
LRA (rated after 4 sec. UL984), HST LST	A	9.4	7.5
Cut in Current, HST LST	A	9.4	11.6
Resistance, main start winding (25°C)	Ω	10.6	18.1

Design

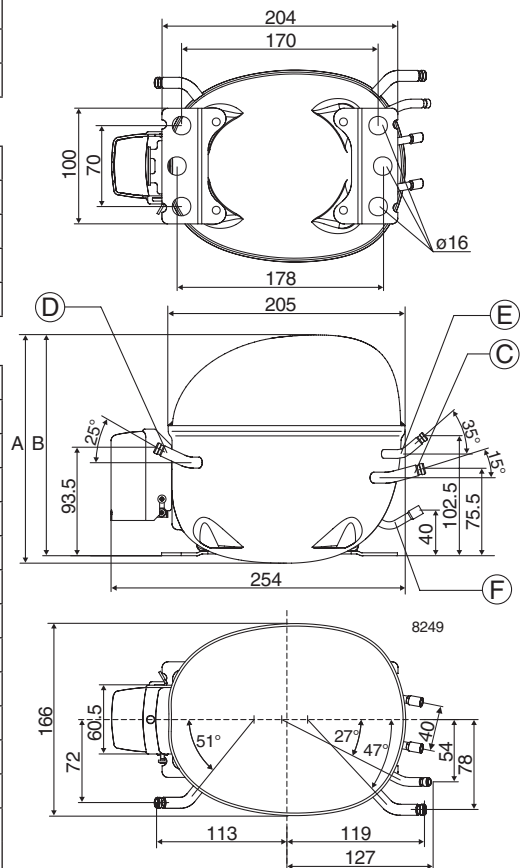
Displacement	cm ³	8.35
Oil quantity (type)	cm ³	270 (polyolester)
Maximum refrigerant charge	g	400
Free gas volume in compressor	cm ³	2230
Weight without electrical equipment	kg	9.6

Dimensions

Height	mm	A	190
		B	184
		B1	-
		B2	-
Suction connector	location/I.D. mm angle	C	6.5 15°
	material comment		Cu-plated steel Al caps
Process connector	location/I.D. mm angle	D	6.5 25°
	material comment		Cu-plated steel Al caps
Discharge connector	location/I.D. mm angle	E	5.0 35°
	material comment		Cu-plated steel Al caps
Oil cooler connector	location/I.D. mm angle	F	5.0 35°
	material comment		Copper Rubber caps
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20
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

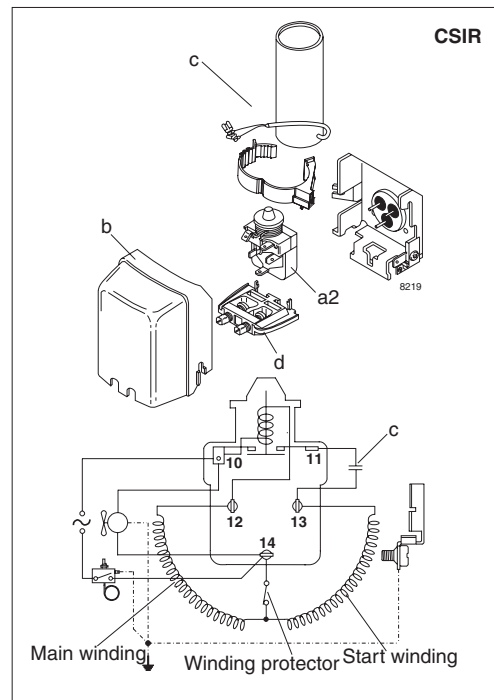
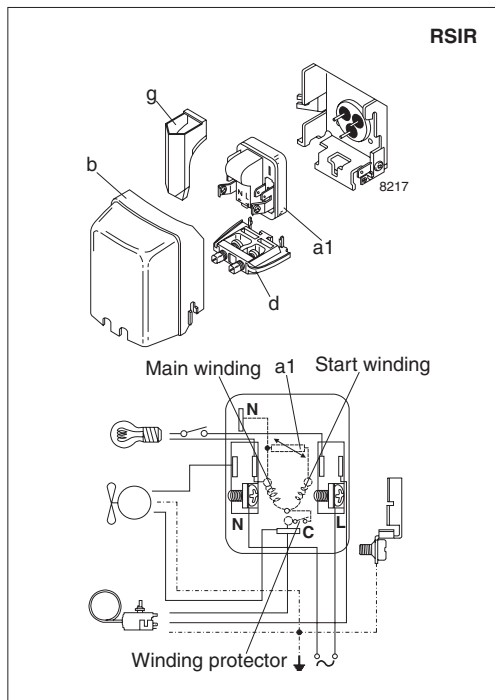


EN 12900 Household (CECOMAF) 220V, 50Hz, 2W PTC consumption incl., static cooling

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			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, 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			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	NL8.4FT	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0011
	4.8 mm spade connectors		103N0018
ePTC starting device	4.8 mm spade connectors	-	-
Starting relay	6.3 mm spade connectors	a2	117U6001
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5015
Cover		b	103N2010
Cord relief		d	103N1010
Run capacitor 4 µF (optional)	6.3 mm spade connectors	e	-
	4.8 mm spade connectors		-
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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