

SC21G

Universal Compressor

R134a

220-240V 50Hz

Data Sheet (Replaces CD.44.L7.02)

General

Compressor	SC21G
Code number	104G8140
Code number	104G8124
Code number (UL-recognized)	104G8143

Application

Application		LBP/HBP
Evaporating temperature range	°C	-35 to 15
Voltage range*)	V/Hz	LBP: 187 - 254 /50
		LBP: 198 - 254 /60
		HBP: 198 - 254 /50
Motor type		CSR
Max. ambient temperature	°C	43
Comp. cooling at ambient temp.	32°C	LBP: F ₂ HBP: F ₂
	38°C	LBP: F ₂ HBP: F ₂
	43°C	LBP: F ₂
		HBP: F ₂

*) Not applicable below -25°C evaporating temperature in 43°C ambient temperature above 240V.

Design

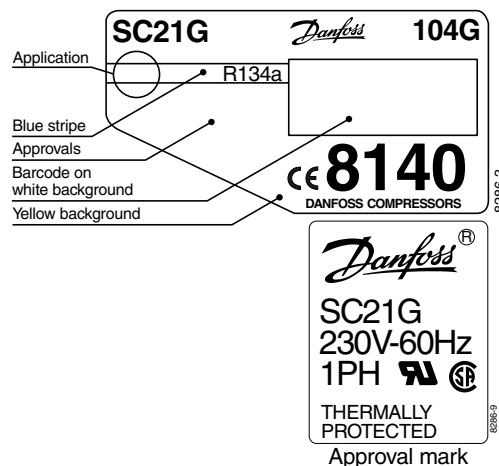
Displacement	cm ³	20.95
Oil quantity	cm ³	550
Maximum refrigerant charge	g	1300
Free gas vol. in compressor	cm ³	1460
Weight without electrical equipment	kg	13.5

Motor

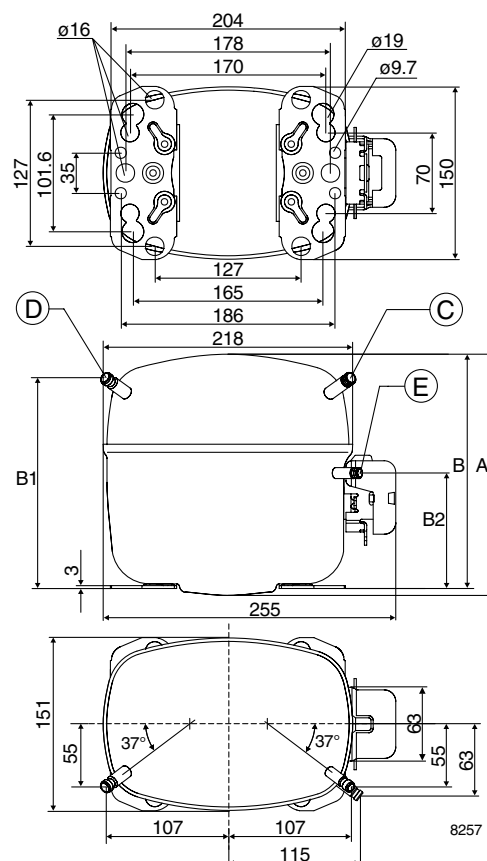
Motor size	watt	550
LRA (rated after 4 sec. UL984) HST	A	21.8
Cut-in current HST	A	21.8
Resistance, main and start winding (25°C)	Ω	3.5/12.1
Approvals (104G8140/24)		EN 60335-2-34
Approvals (104G8143)		UL984/CSA-C22.2

Dimensions

		104G8140/43	104G8124
Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm	C 10.2 ±0.09	10.2 ±0.09
Process connector	location/I.D. mm	D 6.2 ±0.09	6.5 ±0.09
Discharge connector	location/I.D. mm	E 6.2 ±0.09	6.5 ±0.09
Compressors on a pallet	pcs.	80	



- 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



Drawing shows standard SC housing cover. On housing cover of type 104G8124 suction and process connectors are interchanged.

Capacity (EN 12900/CECOMAF)

watt

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	333	370	453	606	792	1012	1268	1560	1700	1889	2256

Capacity (ASHRAE)

watt

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	410	456	558	746	977	1250	1568	1931	2106	2343	2803

Power consumption

watt

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	382	404	445	509	575	643	714	789	823	868	953

Current consumption

A

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	2.28	2.34	2.48	2.71	2.96	3.24	3.54	3.87	4.02	4.22	4.60

COP (EN 12900/CECOMAF)

W/W

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	0.87	0.92	1.02	1.19	1.38	1.58	1.78	1.98	2.07	2.18	2.37

COP (ASHRAE)

W/W

Comp.\°C	-25	-23.3	-20	-15	-10	-5	0	5	7.2	10	15
SC21G	1.07	1.13	1.25	1.47	1.70	1.95	2.20	2.45	2.56	2.70	2.94

Test conditions

EN 12900/CECOMAF

ASHRAE

Condensing temperature

55°C

55°C

Ambient and suction gas temp.

32°C

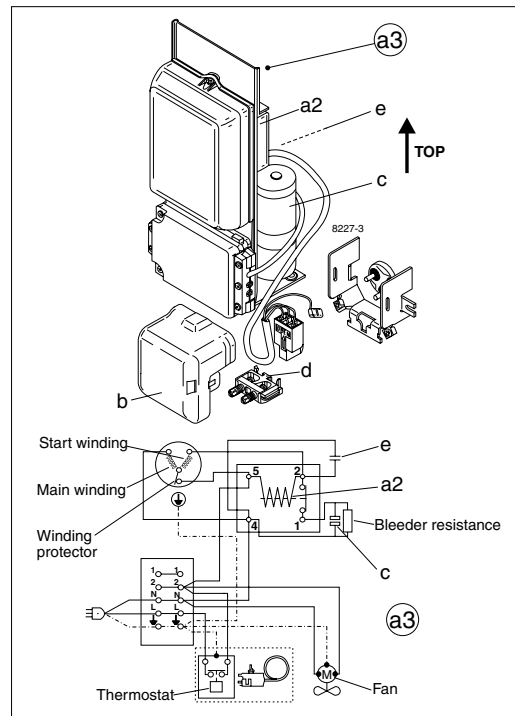
32°C

Liquid temperature

55°C

32°C

Fan cooling, 220V 50Hz



Accessories

Devices	Fig.	SC21G
Starting device (104G8140/24)	a3	117-7028 (470 mm cable length) 117-7029 (550 mm cable length) 117-7032 (650 mm cable length)
Starting device (104G8143)	a3	117-7038 (470 mm cable length) 117-7039 (550 mm cable length) 117-7043 (1000 mm cable length)
Cover (104G8140/24)	b	103N2009
Cover (104G8143)	b	103N2008
Starting relay	a2	Components of starting device
Starting capacitor	c	
Run capacitor	e	
Cord relief	d	103N1004
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919

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