

SC18G

Standard Compressor

R134a

208-230V 60Hz

General

Code number	104G8823
Approvals	UL984
Compressors on pallet	80

Application

Application	MBP	
Frequency	Hz	50 60
Evaporating temperature	°C	- -20 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		—	—	—	—	F ₂	—
38°C		—	—	—	—	F ₂	—
43°C		—	—	—	—	F ₂	—
Remarks on application:							

Motor

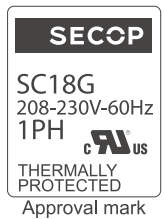
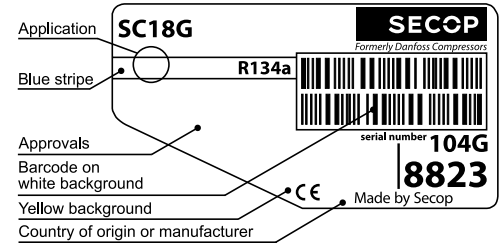
Motor type	CSR	
LRA (rated after 4 sec. UL984), HST LST	A	21.8 -
Cut in Current, HST LST	A	21.8 -
Resistance, main start winding (25°C)	Ω	3.5 12.1

Design

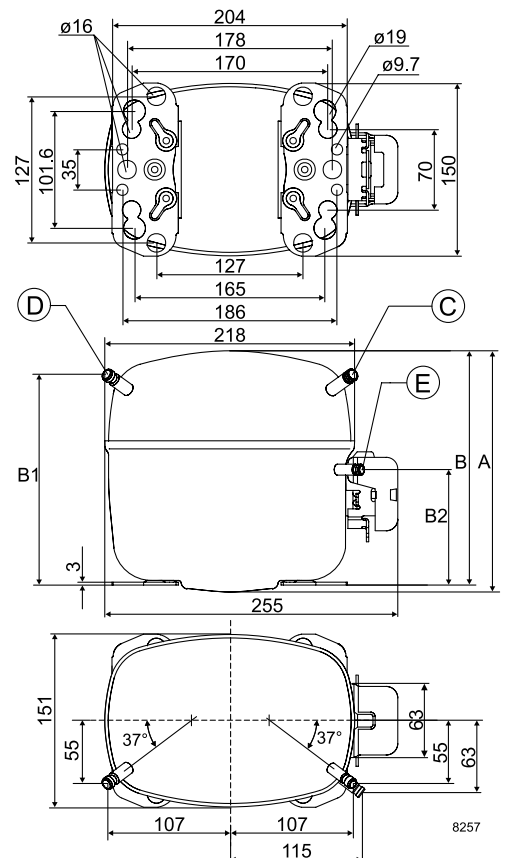
Displacement	cm ³	17.69
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	13.7

Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	10.2 37°
	material comment	Cu-plated steel Al cap	
Process connector	location/I.D. mm angle	D	6.5 37°
	material comment	Cu-plated steel Al cap	
Discharge connector	location/I.D. mm angle	E	6.5 37°
	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	
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

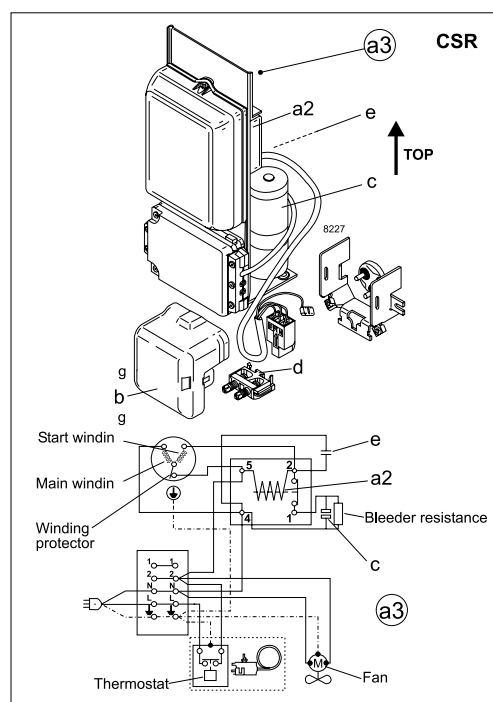


EN 12900 Household (CECOMAF) 230V, 60Hz, fan cooling F₂

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							432	573	745	879	955	1207	1506	1654	1858		
Power cons. in W							393	449	511	554	577	643	708	736	770		
Current cons. in A							1.83	2.14	2.45	2.65	2.75	3.05	3.35	3.48	3.65		
COP in W/W							1.10	1.27	1.46	1.59	1.66	1.88	2.13	2.25	2.41		

ASHRAE MBP 230V, 60Hz, fan cooling F₂

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							476	630	820	967	1050	1328	1657	1820	2045		
Power cons. in W							392	449	510	553	575	641	705	733	766		
Current cons. in A							1.84	2.15	2.45	2.65	2.75	3.05	3.34	3.47	3.63		
COP in W/W							1.21	1.40	1.61	1.75	1.83	2.07	2.35	2.48	2.67		



Accessories for	SC18G	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE MBP
Starting device	470 mm cable length	a3	117-7038	Condensing temperature	55°C	54.4°C
	550 mm cable length		117-7039	Ambient temperature	32°C	35°C
	1000 mm cable length		117-7043	Suction gas temperature	32°C	35°C
Cover		b	103N2008	Liquid temperature	no subcooling	46.1°C
Starting relay		a2	Components of starting device			
Starting capacitor		c				
Run capacitor		e				
Cord relief		d	103N1004			