

SC21F Standard Compressor R134a 220-240V 50Hz

General

Code number	104G8100
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -5	-
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	-	-	-	-	-
38°C		F ₁	-	-	-	-	-
43°C		-	-	-	-	-	-

Remarks on application:
Can be used as a HBP compressor with 240V 50Hz mains (216-254V).

Motor

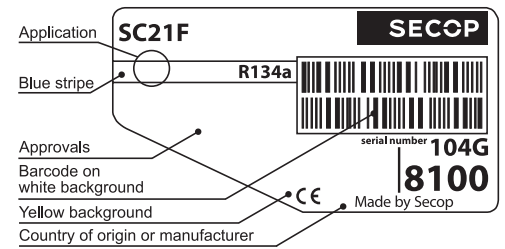
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	18.6	-
Cut in Current, HST LST	A	18.6	-
Resistance, main start winding (25°C)	Ω	3.7	14.1

Design

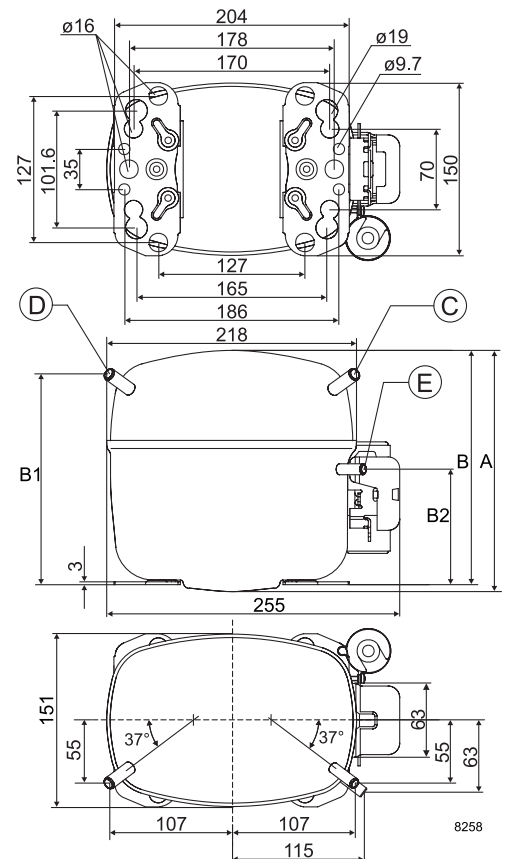
Displacement	cm ³	20.95
Oil quantity (type)	cm ³	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	13.3

Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	10.2 37°
	material comment		Copper Rubber plug
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	6.2 37°
	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

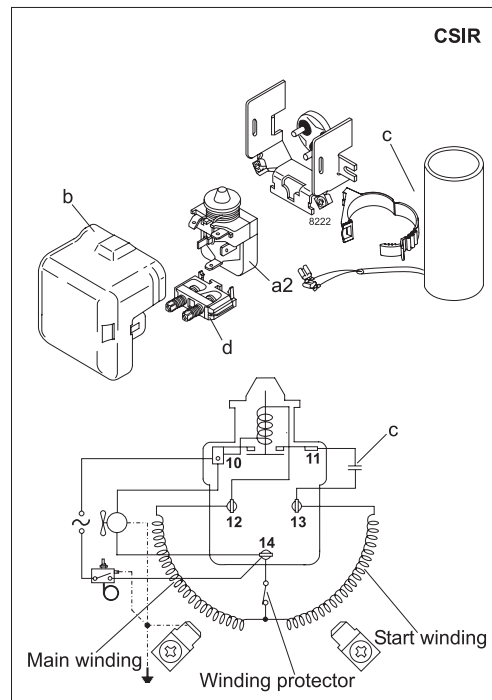


EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₁

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			185	245	335	375	455	610	780	914	990						
Power cons. in W			275	325	380	405	450	520	600	657	685						
Current cons. in A			2.50	2.64	2.77	2.81	2.92	3.16	3.53	3.87	4.09						
COP in W/W			0.67	0.75	0.88	0.92	1.01	1.17	1.30	1.39	1.45						

ASHRAE LBP 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			228	302	412	462	560	750	960	1130	1220						
Power cons. in W			275	325	380	405	450	520	600	657	685						
Current cons. in A			2.50	2.64	2.77	2.81	2.92	3.16	3.53	3.87	4.09						
COP in W/W			0.83	0.93	1.08	1.14	1.24	1.44	1.60	1.72	1.78						



Accessories for	SC21F	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE LBP
PTC starting device	6.3 mm spade connectors	a1	–	Condensing temperature	55°C	55°C
	4.8 mm spade connectors		–	Ambient temperature	32°C	32°C
Starting relay	6.3 mm spade connectors	a2	117U6019	Suction gas temperature	32°C	32°C
Cover		b	103N2009	Liquid temperature	55°C	32°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017			
Cord relief		d	103N1004			
Protection screen for PTC		g	–			
				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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