

## SC21FTX Tropical Compressor R134a 208-230V 60Hz

### General

Code number	104G8106
Approvals	EN 60335-2-34, UL984, KC
Compressors on pallet	80

### Application

Application	LBP			
Frequency	Hz	50	60	
Evaporating temperature	°C	-	-35 to -5	
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 <sub>2</sub>	-	-
38°C		-	-	-	F <sub>2</sub>	-	-
43°C		-	-	-	F <sub>2</sub>	-	-
Remarks on application:							

### Motor

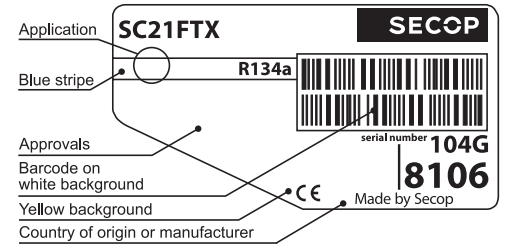
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST   LST	A	23.4	-
Cut in Current, HST   LST	A	23.4	-
Resistance, main   start winding (25°C)	Ω	3.4	14.4

### Design

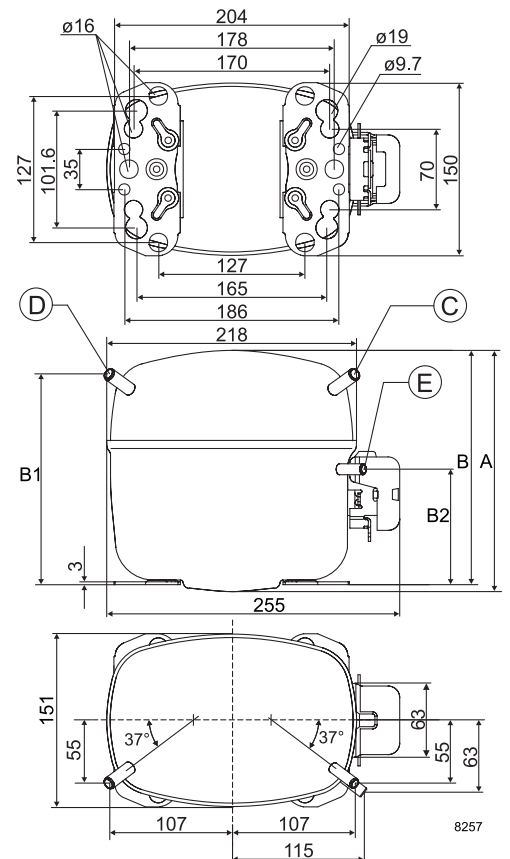
Displacement	cm <sup>3</sup>	20.95
Oil quantity (type)	cm <sup>3</sup>	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm <sup>3</sup>	1460
Weight without electrical equipment	kg	14.0

### 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
- 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

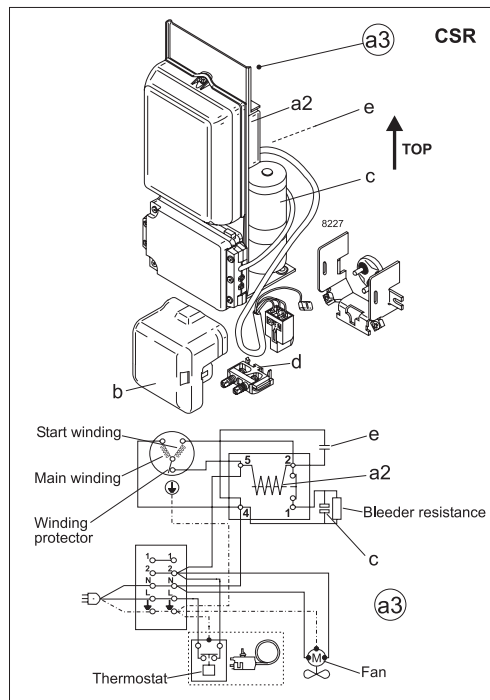


**EN 12900 Household (CECOMAF)** 220V, 60Hz, fan cooling F<sub>2</sub>

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			240	345	470	518	620	800	1012	1173	1262						
Power cons. in W			342	409	475	499	545	621	707	770	805						
Current cons. in A			1.66	1.95	2.25	2.36	2.58	2.93	3.30	3.55	3.69						
COP in W/W			0.70	0.84	0.99	1.04	1.14	1.29	1.43	1.52	1.57						

**ASHRAE LBP** 220V, 60Hz, fan cooling F<sub>2</sub>

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			296	425	580	639	766	988	1251	1450	1561						
Power cons. in W			342	409	475	499	545	621	707	770	805						
Current cons. in A			1.66	1.95	2.25	2.36	2.58	2.93	3.30	3.55	3.69						
COP in W/W			0.87	1.04	1.22	1.28	1.40	1.59	1.77	1.88	1.94						



Accessories for	SC21FTX	Figure	Code number
Starting device	550 mm cable length	a3	117-7039
	1000 mm cable length		117-7043
Cover		b	103N2008
Starting relay		a2	Components of starting device
Starting capacitor		c	
Run capacitor		e	
Cord relief		d	103N1004

Test conditions	EN 12900/CECOMAF	ASHRAE LBP
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	55°C	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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