

# SC21F Standard Compressor R134a 220-240V 50Hz

## General

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

# Application

Application	LE	3P	
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	НВР
32°C		F <sub>1</sub>	_	_	_	_	_
38°C		F <sub>1</sub>	_	_	_	_	_
43°C		_	_	_	_	_	_

Remarks on application:

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

# Application SC21F Blue stripe R134a Approvals Barcode on white background Yellow background Country of origin or manufacturer

- S = Static cooling normally sufficient
  - = 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 sufficent
  - = not applicable in this area

### Motor

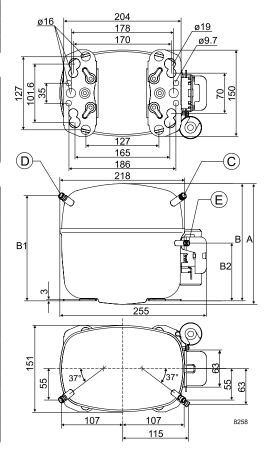
Motor type	CSIR				
LRA (rated after 4 sec. UL984), HST   LST	Α	18.6	_		
Cut in Current, HST   LST	Α	18.6	_		
Resistance, main   start winding (25°C)	Ω	3.7	14.1		

#### 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	13.3

### **Dimensions**

mm	Α	219
	В	213
	В1	193
	B2	110
location/I.D. mm   angle	С	10.2   37°
material   comment		Cu-plated steel   Al cap
location/I.D. mm   angle	D	6.2   37°
material   comment		Cu-plated steel   Al cap
location/I.D. mm   angle	Е	6.2   37°
material   comment		Cu-plated steel   Al cap
location/I.D. mm   angle	F	_
material   comment		_
I.D. mm		±0.09
	material   comment location/I.D. mm   angle material   comment location/I.D. mm   angle material   comment location/I.D. mm   angle material   comment	B1   B2     B2

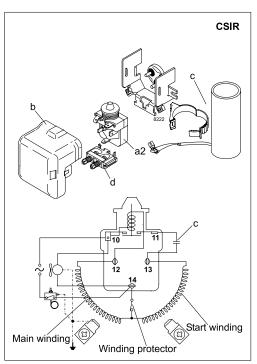


EN 12900 Household (	CECOMAF	) 220V, 5	50Hz, fan d	cooling F <sub>1</sub>
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Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			185	245	335	375	455	610	780	914	990						
Power cons. in W			275	325	380	405	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 F

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
PTC starting device	6.3 mm spade connectors	a1	_
	4.8 mm spade connectors	aı	_
Starting relay	6.3 mm spade connectors	a2	117U6019
Cover		b	103N2009
Start. capacitor 80 µl	6.3 mm spade connectors	С	117U5017
Cord relief		d	103N1004
Protection screen for	PTC	g	_

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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