

SC21MFX Standard Compressor R134a 220-240V 50Hz

General

Code number	104G8120
Approvals	EN 60335-2-34, CCC, EAC
Compressors on pallet	80

Application

Application	MBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-23.3 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

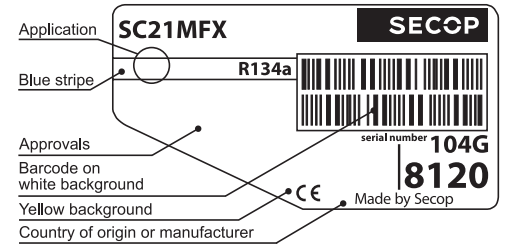
Motor type	CSIR/CSR		
LRA (rated after 4 sec. UL984), HST LST	A	23.6	-
Cut in Current, HST LST	A	23.6	-
Resistance, main start winding (25°C)	Ω	3.4	14.4

Design

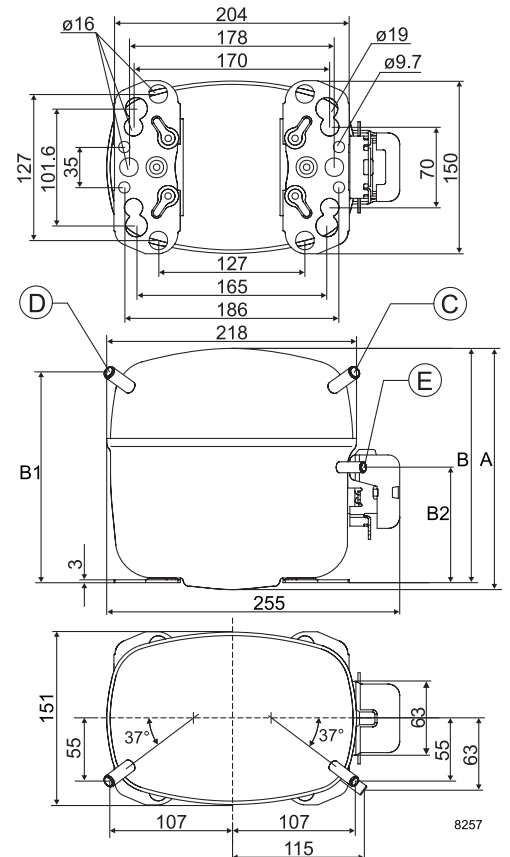
Displacement	cm ³	20.95
Oil quantity (type)	cm ³	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	14.0

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
- 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 (CSIR), 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						430	514	662	840	976	1052	1303	1596	1740	1936		
Power cons. in W						441	485	550	615	658	680	746	813	842	881		
Current cons. in A						3.68	3.83	4.04	4.24	4.37	4.43	4.61	4.78	4.85	4.93		
COP in W/W						0.97	1.06	1.20	1.37	1.48	1.55	1.75	1.96	2.07	2.20		

EN 12900 Household (CECOMAF) 220V, 50Hz, RC (CSR), fan cooling F₂

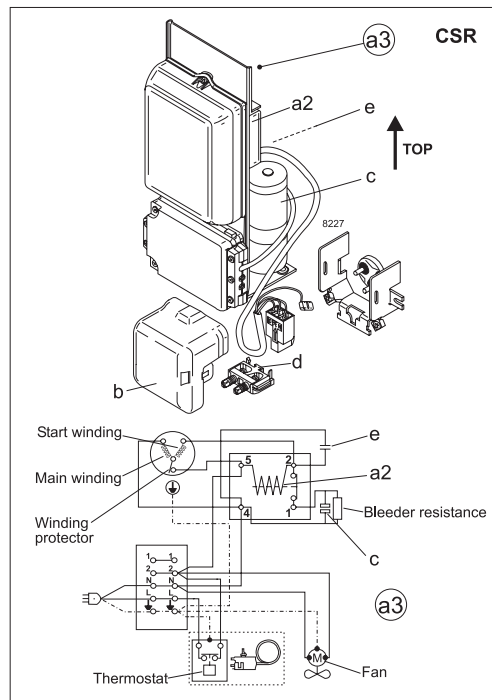
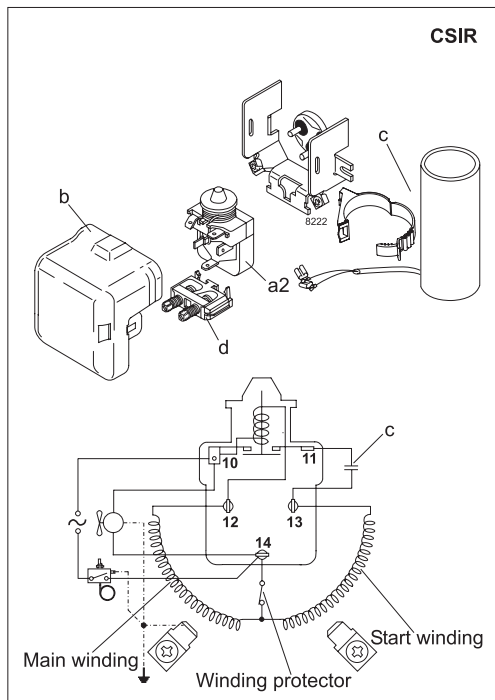
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W						443	530	682	866	1006	1085	1343	1645	1793	1996		
Power cons. in W						427	469	532	594	635	657	720	784	812	849		
Current cons. in A						2.65	2.83	3.10	3.36	3.52	3.60	3.82	4.03	4.12	4.23		
COP in W/W						1.04	1.13	1.28	1.46	1.58	1.65	1.87	2.10	2.21	2.35		

ASHRAE MBP 220V, 50Hz (CSIR), 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						473	565	728	924	1073	1157	1433	1756	1914	2131		
Power cons. in W						441	484	548	613	656	678	743	809	839	877		
Current cons. in A						3.67	3.82	4.03	4.23	4.36	4.42	4.60	4.77	4.84	4.93		
COP in W/W						1.07	1.17	1.33	1.51	1.64	1.71	1.93	2.17	2.28	2.43		

ASHRAE MBP 220V, 50Hz, RC (CSR), 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						487	582	750	952	1106	1193	1477	1810	1973	2196		
Power cons. in W						427	468	530	592	633	654	717	781	809	846		
Current cons. in A						2.63	2.82	3.09	3.34	3.50	3.58	3.81	4.02	4.11	4.22		
COP in W/W						1.14	1.24	1.42	1.61	1.75	1.82	2.06	2.32	2.44	2.60		



Accessories for SC21MFX	Figure	Code number
Starting device 550 mm cable length 1000 mm cable length	a3	117-7039
		117-7043
Starting relay	a2	Components of starting device
Start. capacitor 80 µF	c	
Run capacitor 10 µF	e	
Starting relay 6.3 mm spade connectors	a2	
Start. capacitor 80 µF 6.3 mm spade connectors	c	117U5017
Cover	b	103N2009
Cord relief	d	103N1004

Test conditions	EN 12900/CECOMAF	ASHRAE MBP
Condensing temperature	55°C	54.4°C
Ambient temperature	32°C	35°C
Suction gas temperature	32°C	35°C
Liquid temperature	no subcooling	46.1°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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