

SC15G Universal Compressor R134a 220-240V 50/60Hz

General

Code number	104G8520
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP/HBP			
Frequency	Hz	50		60
Evaporating temperature	°C	-25 to 15		-25 to 15
Voltage range	V	187 - 254		198 - 254
Max. condensing temperature continuous (short)	°C	60 (70)		60 (70)
Max. winding temperature continuous (short)	°C	125 (135)		125 (135)

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F ₁	F ₂	F ₂	F ₁	-	-
38°C		F ₁	F ₂	F ₂	F ₁	-	-
43°C		F ₁	F ₂	F ₂	F ₁	-	-

Remarks on application: HBP at 198 - 254V 50Hz only.

Motor

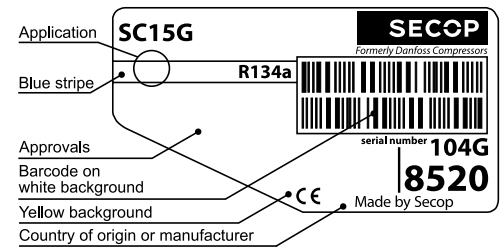
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	14.8	-
Cut in Current, HST LST	A	14.8	-
Resistance, main start winding (25°C)	Ω	5.0	13.7

Design

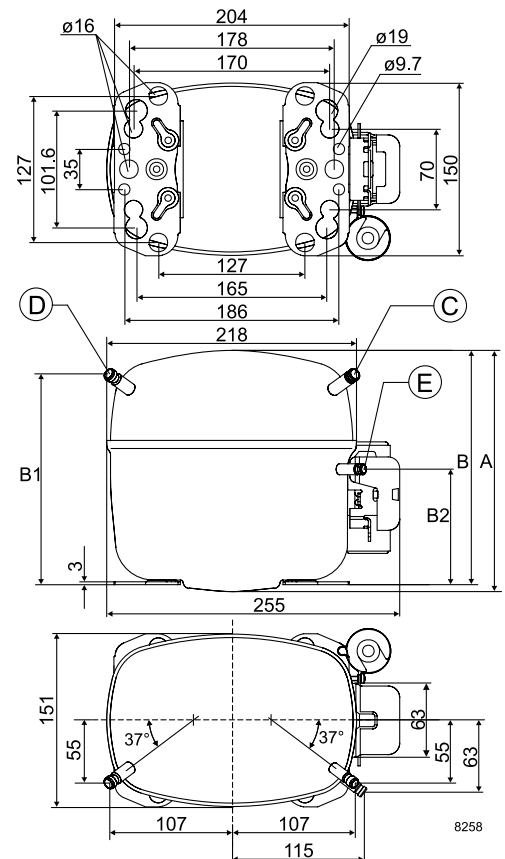
Displacement	cm ³	15.28
Oil quantity (type)	cm ³	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1410
Weight without electrical equipment	kg	13.1

Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
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	6.2 37°
	material comment	Cu-plated steel Al cap	
Discharge connector	location/I.D. mm angle	E	6.2 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

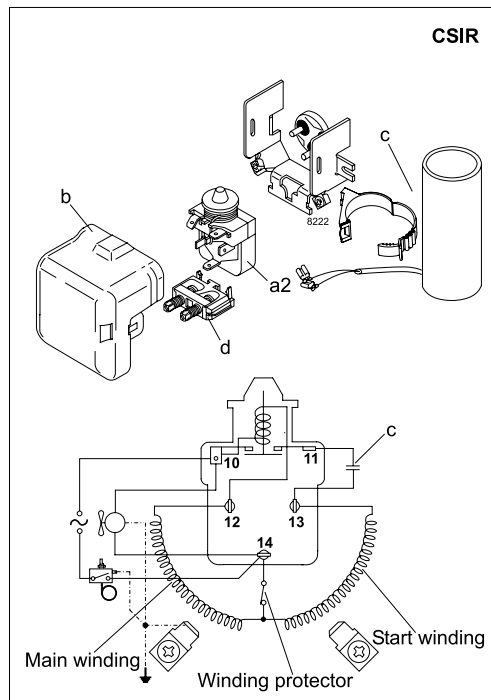


EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₂

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					164	206	290	424	568	672	728	908	1110	1207	1340	1600	
Power cons. in W					233	259	307	376	440	478	497	549	595	613	634	667	
Current cons. in A					2.21	2.28	2.40	2.59	2.78	2.92	2.99	3.20	3.42	3.52	3.64	3.88	
COP in W/W					0.71	0.80	0.95	1.13	1.29	1.40	1.46	1.65	1.87	1.97	2.11	2.40	

ASHRAE LBP 220V, 50Hz, 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					203	255	358	523	703	831	901	1124	1377	1499	1665	1993	
Power cons. in W					233	259	307	376	440	478	497	549	595	613	634	667	
Current cons. in A					2.21	2.28	2.40	2.59	2.78	2.92	2.99	3.20	3.42	3.52	3.64	3.88	
COP in W/W					0.87	0.99	1.17	1.39	1.60	1.74	1.81	2.05	2.31	2.44	2.62	2.99	



Accessories for	SC15G	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	117U6005	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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