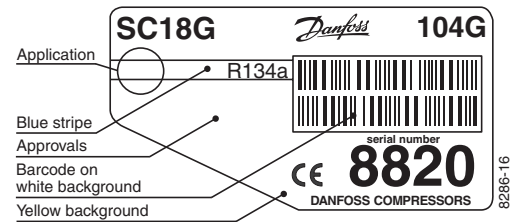


# SC18G Universal Compressor R134a 220-240V 50Hz



## General

Code number	104G8820
Approvals	EN 60335-2-34, CCC
Compressors on pallet	80

## Application

Application	LBP/HBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-25 to 15	-25 to -5
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 <sub>1</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>1</sub>	-	-
38°C		F <sub>1</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>1</sub>	-	-
43°C		F <sub>1</sub>	F <sub>2</sub>	F <sub>2</sub>	F <sub>1</sub>	-	-
Remarks on application: HBP at 198 - 254V 50Hz only.							

- 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

## Motor

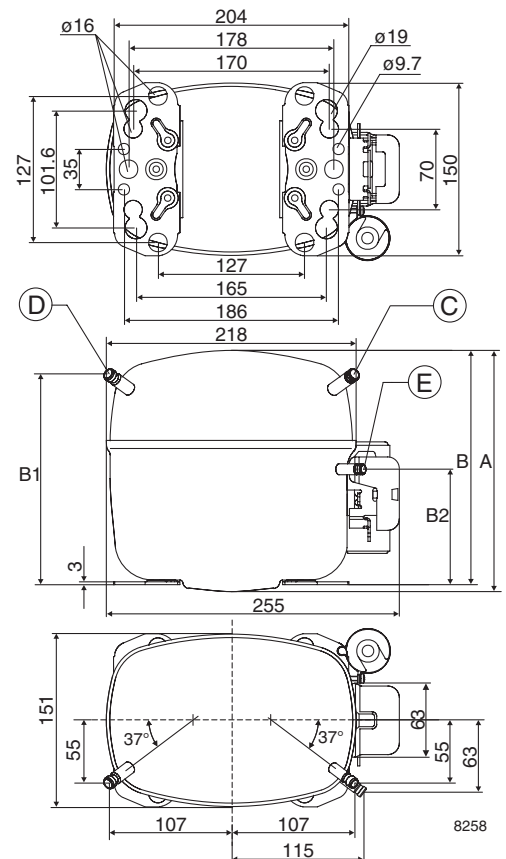
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	18.6	-
Cut in Current, HST   LST	A	18.6	-
Resistance, main   start winding (25°C)	Ω	3.7	14.1

## Design

Displacement	cm <sup>3</sup>	17.69
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	13.7

## Dimensions

Height	A	219
	B	213
	B1	193
	B2	110
Suction connector	location/I.D. mm   angle	C 10.2   37°
	material   comment	Cu-plated steel   Al caps
Process connector	location/I.D. mm   angle	D 6.2   37°
	material   comment	Cu-plated steel   Al caps
Discharge connector	location/I.D. mm   angle	E 6.2   37°
	material   comment	Cu-plated steel   Al caps
Oil cooler connector	location/I.D. mm   angle	F -
	material   comment	-
Connector tolerance	I.D. mm	±0.09
Remarks:		

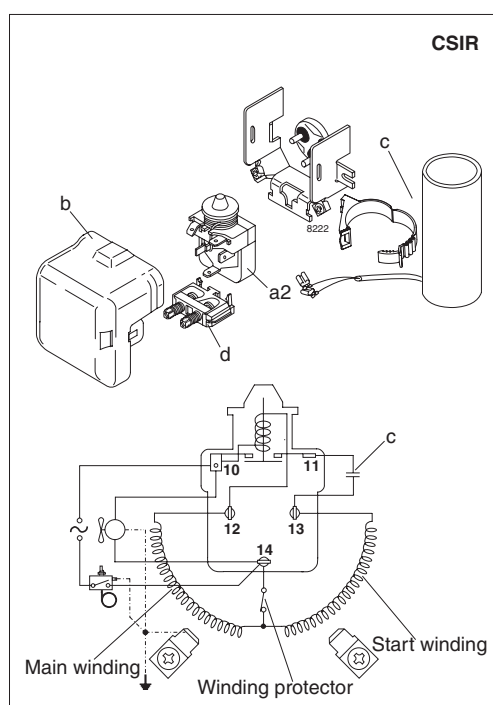


**EN 12900 Household (CECOMAF)\*** 220V, 50Hz, fan cooling F<sub>2</sub>

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					283	318	394	526	684	804	870	1087	1337	1459	1624	1950	
Power cons. in W					331	351	389	448	507	547	568	630	695	725	763	835	
Current cons. in A					2.56	2.62	2.72	2.88	3.05	3.18	3.24	3.46	3.71	3.84	4.00	4.34	
COP in W/W					0.86	0.91	1.01	1.18	1.35	1.47	1.53	1.72	1.92	2.01	2.13	2.34	

**ASHRAE LBP** 220V, 50Hz, 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					348	392	485	650	846	994	1076	1346	1658	1809	2016	2425	
Power cons. in W					329	349	387	445	504	543	564	626	691	720	758	829	
Current cons. in A					2.56	2.61	2.71	2.87	3.04	3.16	3.23	3.45	3.70	3.82	3.98	4.32	
COP in W/W					1.06	1.12	1.25	1.46	1.68	1.83	1.91	2.15	2.40	2.51	2.66	2.92	



Accessories for	SC18G	Figure	Code number
PTC starting device	6.3 mm spade connectors	-	-
	4.8 mm spade connectors	-	-
Starting relay	6.3 mm spade connectors	a2	117U6019
Cover		b	103N2009
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017
Cord relief		d	103N1004
Protection screen for PTC		-	-

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

Mounting accessories	Code number	
Bolt joint for one compressor	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.