

# SC12DL MBP/HBP Compressor R404A/R507 & R407C 220-240V 50Hz

## General

Code number	104L2625
Approvals	EN 60335-2-34
Compressors on pallet	80

## Application

Application	MBP/HBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-20 to 15	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	50 (60)	-
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>	F <sub>2</sub>	-	-	-
38°C		-	F <sub>2</sub>	F <sub>2</sub>	-	-	-
43°C		-	-	-	-	-	-
Remarks on application:							

## Motor

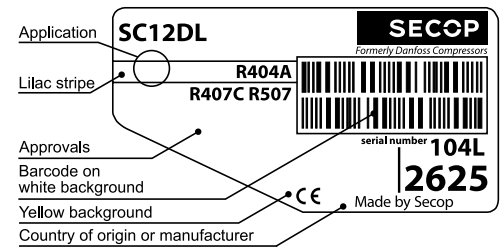
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	18.6	-
Cut in Current, HST   LST	A	18.6	-
Resistance, main   start winding (25°C)	Ω	3.7	14.1

## Design

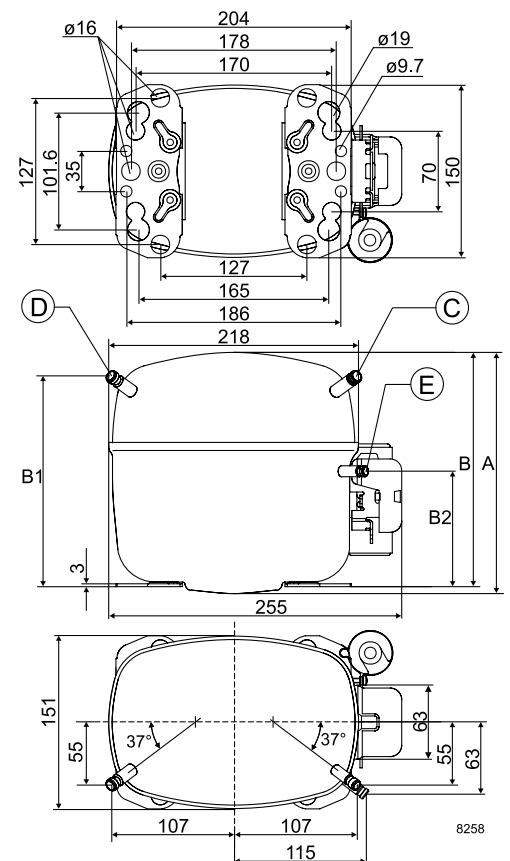
Displacement	cm <sup>3</sup>	12.87
Oil quantity (type)	cm <sup>3</sup>	600 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm <sup>3</sup>	1460
Weight without electrical equipment	kg	13.6

## Dimensions

Height	mm	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 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
- 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

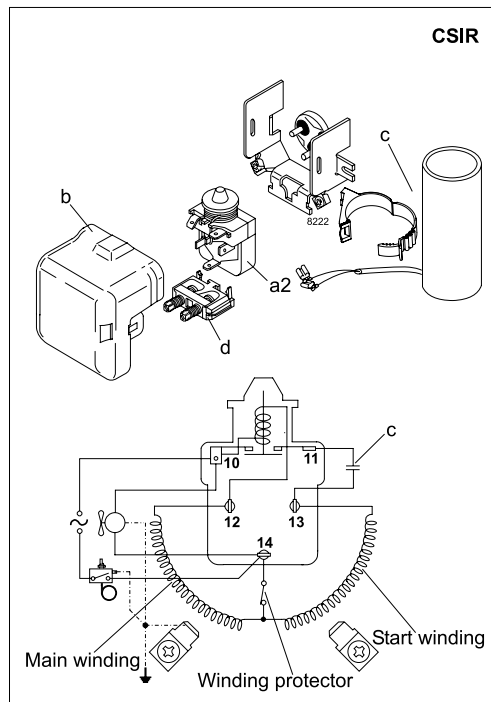


**EN 12900 Household (CECOMAF)** 220V, 50Hz, fan cooling F<sub>2</sub>

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							609	806	1028	1190	1279	1565	1890	2046	2258	2674	
Power cons. in W							489	563	624	659	675	717	750	763	778	800	
Current cons. in A							3.37	3.65	3.89	4.04	4.11	4.29	4.44	4.50	4.56	4.66	
COP in W/W							1.24	1.43	1.65	1.81	1.90	2.18	2.52	2.68	2.90	3.34	

**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							707	937	1196	1384	1491	1827	2210	2396	2647	3144	
Power cons. in W							489	563	624	659	675	717	750	763	778	800	
Current cons. in A							3.37	3.65	3.89	4.04	4.11	4.29	4.44	4.50	4.56	4.66	
COP in W/W							1.45	1.67	1.92	2.11	2.21	2.55	2.95	3.14	3.40	3.93	



Accessories for	SC12DL	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE LBP
PTC starting device	6.3 mm spade connectors	a1	–	Condensing temperature	45°C	45°C
	4.8 mm spade connectors		–	Ambient temperature	32°C	32°C
Starting relay	6.3 mm spade connectors	a2	117U6019	Suction gas temperature	32°C	32°C
Cover		b	103N2009	Liquid temperature	45°C	32°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017			
Cord relief		d	103N1004			
Protection screen for PTC		g	–			
				<b>Mounting accessories</b>		<b>Code number</b>
				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

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.