

SC10DL

MBP/HBP Compressor

R407C

220-240V 50Hz

Data Sheet (Replaces CF.54.V1.02)

General

Compressor	SC10DL
Code number	104L2525

Application

Application	MBP/HBP	
Evaporating temperature range	°C	-15 to 15
Voltage range	V/Hz	198 - 254 /50
Motor type	CSIR	
Max. ambient temperature	°C	38
Comp. cooling at ambient temp.	32°C	F ₂
	38°C	F ₂

Design

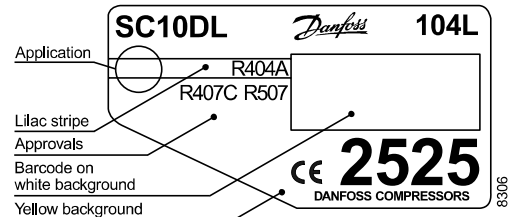
Displacement	cm ³	10.29
Oil quantity	cm ³	600
Maximum refrigerant charge	g	1300
Free gas vol. in compressor	cm ³	1410
Weight without electrical equipment	kg	13.1

Motor

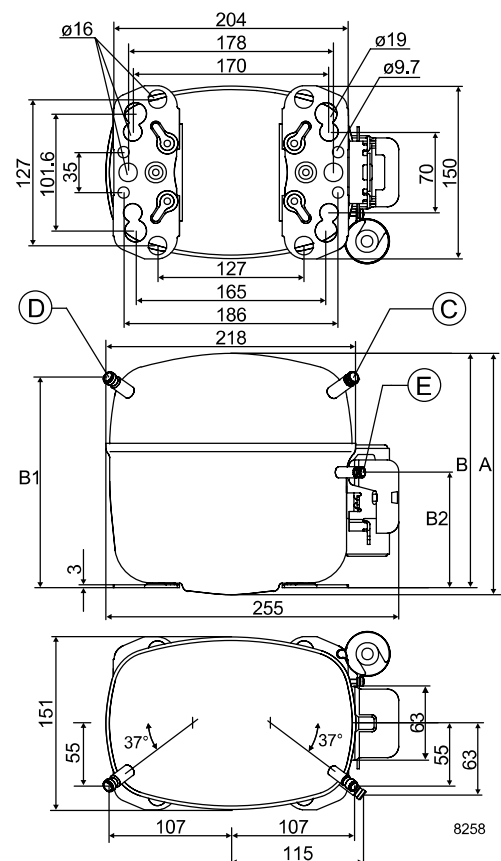
Motor size	watt	385
LRA (rated after 4 sec. UL984) HST	A	14.8
Cut-in current HST	A	14.8
Resistance, main and start winding (25°C)	Ω	5.0/13.7
Approvals	EN 60 335-2-34	

Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm	C	8.2 ±0.09
Process connector	location/I.D. mm	D	6.2 ±0.09
Discharge connector	location/I.D. mm	E	6.2 ±0.09
Compressors on a pallet	pcs.	80	



- 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



Capacity (EN 12900/CECOMAF)
watt

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	480	636	821	1039	1293	1417	1588	1927

Capacity (ASHRAE)
watt

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	515	682	881	1114	1388	1522	1706	2073

Power consumption
watt

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	346	394	437	476	510	524	540	568

Current consumption
A

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	2.50	2.66	2.81	2.95	3.08	3.14	3.20	3.31

COP (EN 12900/CECOMAF)
W/W

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	1.39	1.61	1.88	2.18	2.54	2.71	2.94	3.40

COP (ASHRAE)
W/W

Comp. °C	-15	-10	-5	0	5	7.2	10	15
SC10DL	1.49	1.73	2.01	2.34	2.72	2.91	3.16	3.65

Test conditions

Condensing temperature

Ambient and suction gas temp.

Liquid temperature

 Fan cooling F₂, 220V 50Hz

EN 12900/CECOMAF

45°C

32°C

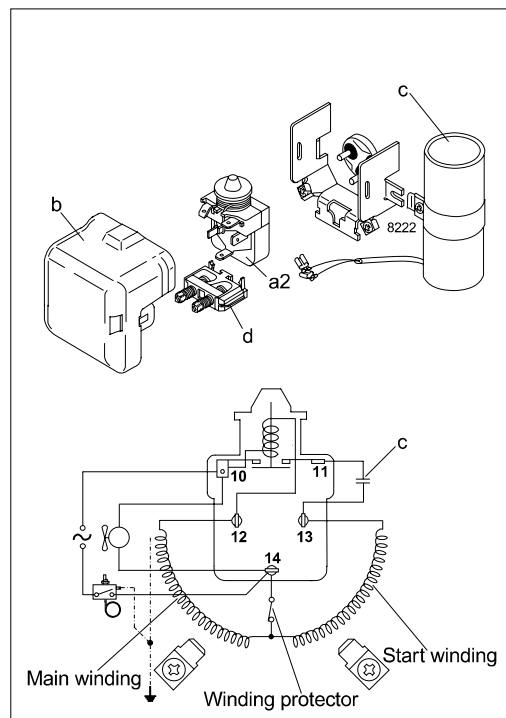
no subcooling

ASHRAE

45°C

32°C

32°C


Accessories

Devices	Fig.	SC10DL
Starting relay	a2	117U6005
Cover	b	103N2009
Starting capacitor 80 µF	c	117U5017
Cord relief	d	103N1004
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		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.