

SC10CL
LBP/MBP Compressor
R404A/R507
220-240V 50Hz

General

Code number	104L2523
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-35 to -5	—
Voltage range	V	198 - 254	—
Max. condensing temperature continuous (short)	°C	55 (60)	—
Max. winding temperature continuous (short)	°C	125 (135)	—

Cooling requirements

Cooling requirements							
Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F ₂	F ₂	—	—	—	—
38°C		F ₂	F ₂	—	—	—	—
43°C		—	—	—	—	—	—
Remarks on application:							

Motor

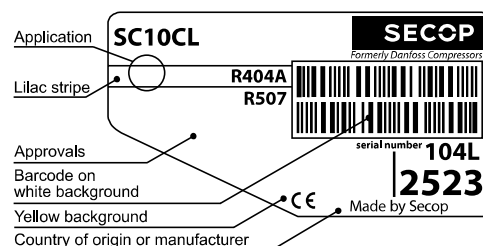
Motor type	CSIR	
LRA (rated after 4 sec. UL984), HST LST	A	12.6
Cut in Current, HST LST	A	12.6
Resistance, main start winding (25°C)	Ω	6.7

Design

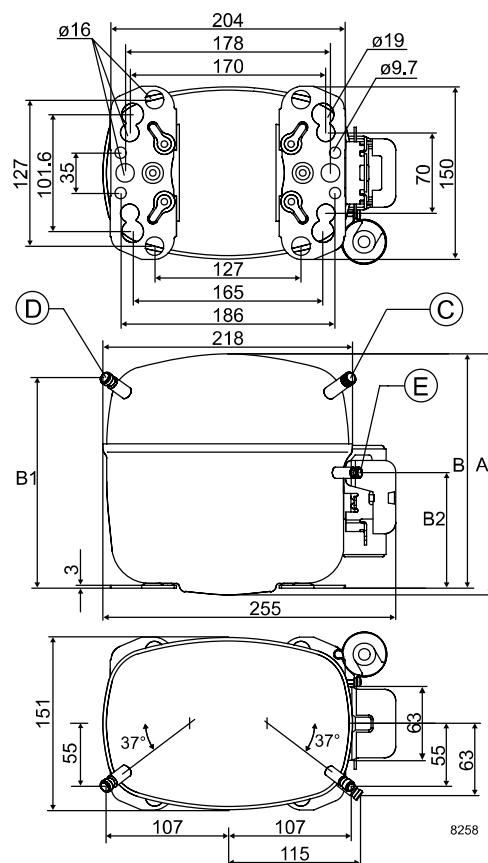
Displacement	cm ³	10.29
Oil quantity (type)	cm ³	550 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	13.1

Dimensions

Dimensions		Unit	
Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm angle	C	8.2 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

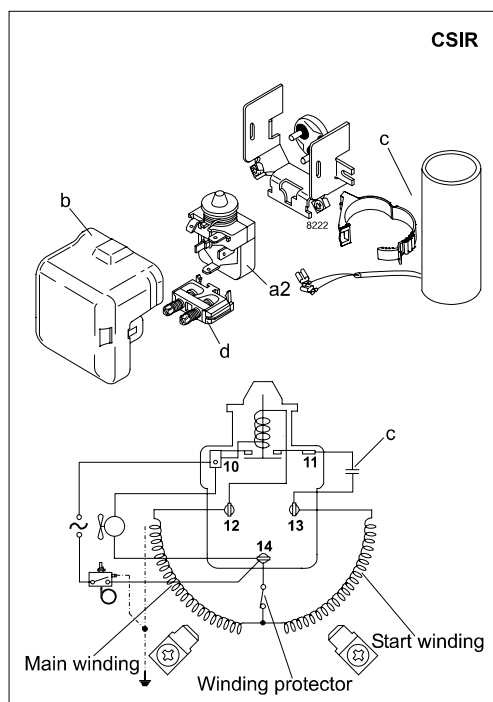


EN 12900 Household (CECOMAF)220V, 50Hz, fan cooling F₂

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			168	258	365	405	489	634	800	923	991						
Power cons. in W			243	294	350	370	410	471	530	566	584						
Current cons. in A			1.91	2.05	2.22	2.27	2.39	2.59	2.81	2.96	3.04						
COP in W/W			0.69	0.88	1.04	1.09	1.19	1.35	1.51	1.63	1.70						

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			195	300	424	470	569	737	932	1071	1154						
Power cons. in W			243	294	350	370	410	471	530	566	584						
Current cons. in A			1.91	2.05	2.22	2.27	2.39	2.59	2.81	2.96	3.04						
COP in W/W			0.80	1.02	1.21	1.27	1.39	1.57	1.76	1.89	1.98						



Accessories for	SC10CL	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	—
	4.8 mm spade connectors		—
Starting relay	6.3 mm spade connectors	a2	117U6003
Cover		b	103N2009
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017
Cord relief		d	103N1004
Protection screen for PTC		g	—

Test conditions	EN 12900/CECOMAF	ASHRAE LBP*
Condensing temperature	45°C	45°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 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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