

SC15CL
LBP/MBP Compressor
R404A/R507
220-240V 50Hz

General

Code number	104L2853
Approvals	EN 60335-2-34, CCC, EAC
Compressors on pallet	80

Application

Application		LBP/MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-40 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

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

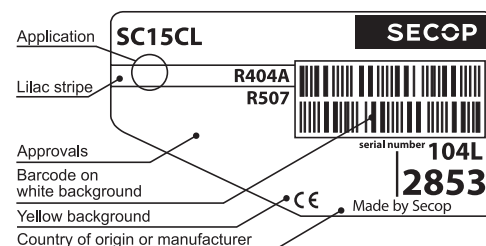
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	18.6	–
Cut in Current, HST LST	A	18.6	–
Resistance, main start winding (25°C)	Ω	3.7	14.1

Design

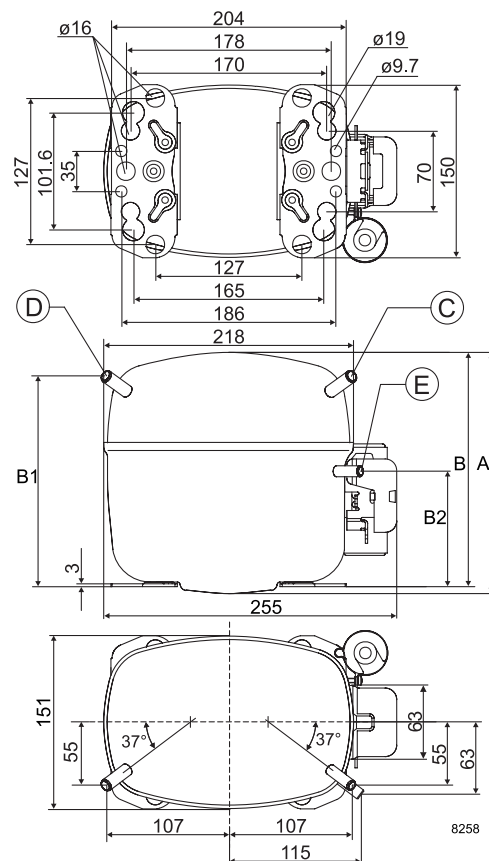
Displacement	cm ³	15.28
Oil quantity (type)	cm ³	500 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1510
Weight without electrical equipment	kg	13.8

Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	10.2 37°
	material comment	Copper Rubber plug	
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment	Copper Rubber plug	
Discharge connector	location/I.D. mm angle	E	6.2 37°
	material comment	Copper Rubber plug	
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

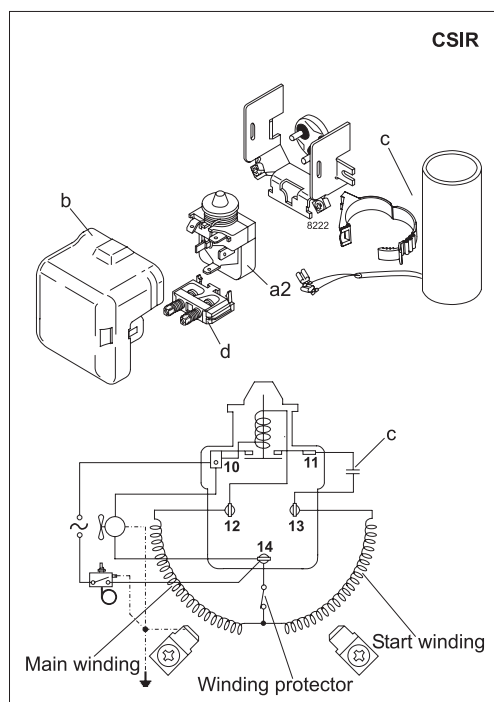


EN 12900 Household (CECOMAF)220V, 50Hz, fan cooling F₂

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		151	299	452	615	673	792	988	1208	1370	1458						
Power cons. in W		298	400	485	560	584	631	706	790	854	891						
Current cons. in A		2.83	3.05	3.28	3.52	3.61	3.77	4.04	4.31	4.50	4.60						
COP in W/W		0.51	0.75	0.93	1.10	1.15	1.25	1.40	1.53	1.60	1.64						

ASHRAE LBP220V, 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		175	347	525	714	782	920	1149	1407	1588	1699						
Power cons. in W		298	400	485	560	584	631	706	790	854	891						
Current cons. in A		2.83	3.05	3.28	3.52	3.61	3.77	4.04	4.31	4.50	4.60						
COP in W/W		0.59	0.87	1.08	1.27	1.34	1.46	1.63	1.78	1.86	1.91						



Accessories for	SC15CL	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	no subcooling	32°C												
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5017	<table><tr><th colspan="2">Mounting accessories</th><th>Code number</th></tr><tr><td>Bolt joint for one comp.</td><td>Ø: 16 mm</td><td>118-1917</td></tr><tr><td>Bolt joint in quantities</td><td>Ø: 16 mm</td><td>118-1918</td></tr><tr><td>Snap-on in quantities</td><td>Ø: 16 mm</td><td>118-1919</td></tr></table>			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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Cord relief		d	103N1004															
Protection screen for PTC		g	—															

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