

SC18MLX MBP Compressor R404A/R507 208-230V 60Hz

General

Code number	104L2138
Approvals	UL984
Compressors on pallet	80

Application

Application	MBP			
Frequency	Hz	50	60	
Evaporating temperature	°C	–	-23.3 to 7.2	
Voltage range	V	–	187 - 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 ₂	–
38°C		–	–	–	–	F ₂	–
43°C		–	–	–	–	F ₂	–
Remarks on application:							

Motor

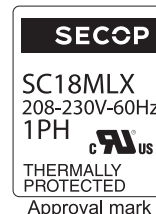
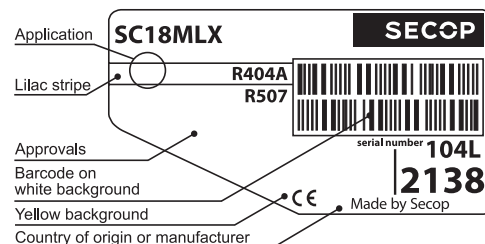
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	32.5	–
Cut in Current, HST LST	A	32.5	–
Resistance, main start winding (25°C)	Ω	2.0	6.6

Design

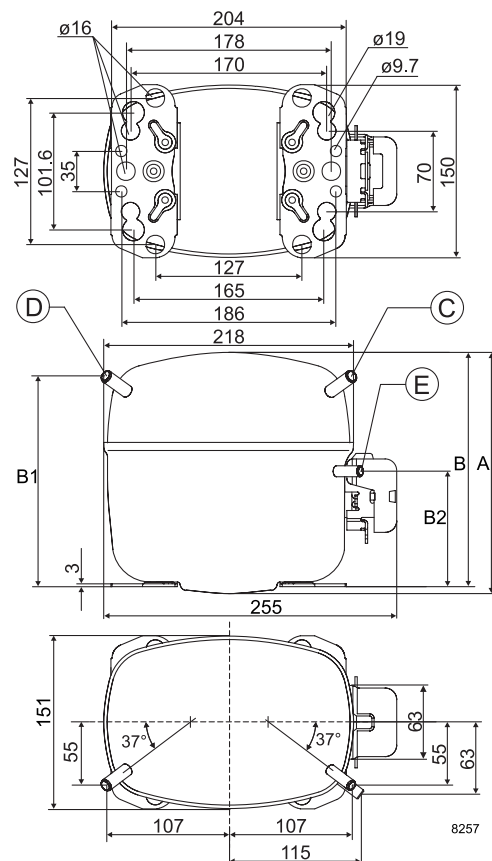
Displacement	cm ³	17.68
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	14.0

Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	9.7 37°
	material comment	Copper Rubber plug	
Process connector	location/I.D. mm angle	D	6.5 37°
	material comment	Copper Rubber plug	
Discharge connector	location/I.D. mm angle	E	6.5 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

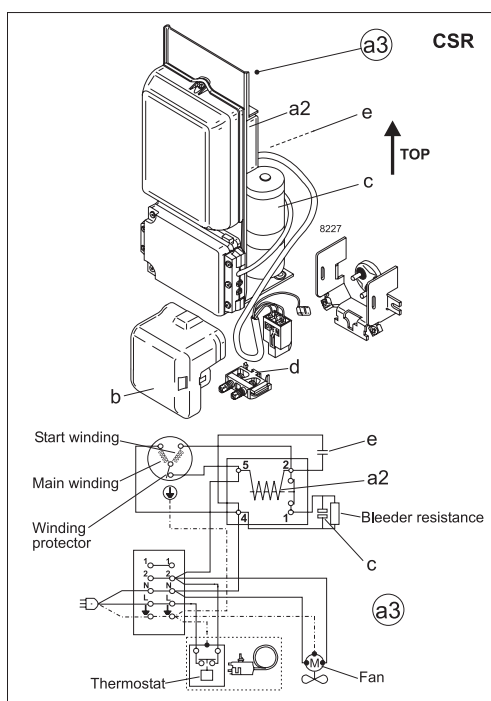


EN 12900 Household (CECOMAF)230V, 60Hz, fan cooling F₂

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						986	1140	1412	1732	1972	2106	2538	3034	3273			
Power cons. in W						829	883	967	1051	1108	1137	1226	1317	1358			
Current cons. in A						5.08	5.24	5.51	5.81	6.02	6.13	6.49	6.88	7.06			
COP in W/W						1.19	1.29	1.46	1.65	1.78	1.85	2.07	2.30	2.41			

ASHRAE MBP230V, 60Hz, 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						880	1030	1294	1607	1844	1975	2405	2901	3142			
Power cons. in W						861	926	1025	1124	1190	1224	1326	1430	1477			
Current cons. in A						5.08	5.29	5.63	6.00	6.26	6.40	6.84	7.30	7.52			
COP in W/W						1.02	1.11	1.26	1.43	1.55	1.61	1.81	2.03	2.13			



Accessories for	SC18MLX (60Hz)	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE MBP
Starting device	470 mm cable length	a3	117-7066	Condensing temperature	45°C	54.4°C
Cover		b	103N2008	Ambient temperature	32°C	35°C
Starting relay		a2	Components of starting device	Suction gas temperature	32°C	35°C
Start. capacitor 80 µF		c		Liquid temperature	no subcooling	46.1°C
Run capacitor 10 µF		e				
Cord relief		d	103N1004			
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

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