

SC18MLX

MBP Compressor

R404A/R507

220-240V 50Hz

General

Code number	104L2139
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

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

Motor

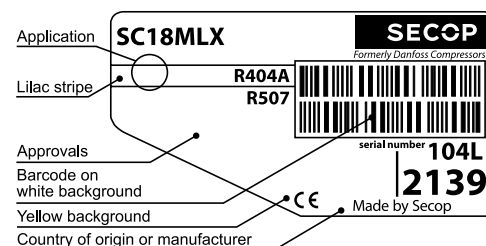
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	23.6	–
Cut in Current, HST LST	A	23.6	–
Resistance, main start winding (25°C)	Ω	3.4	14.4

Design

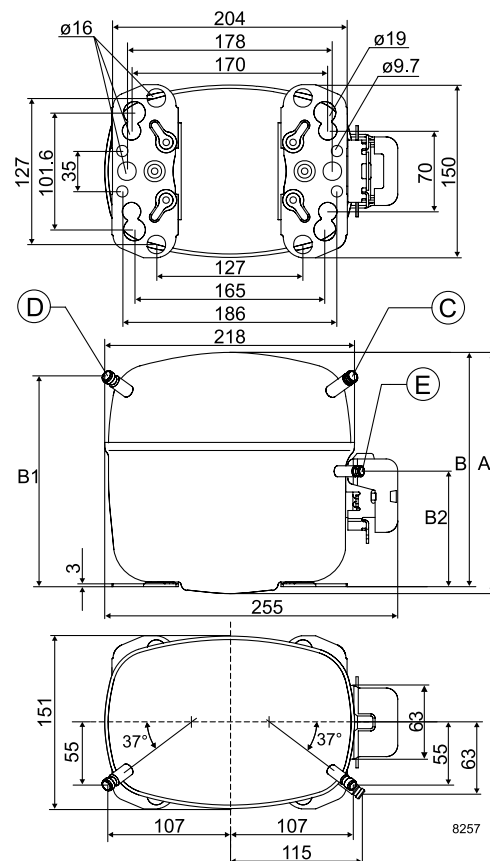
Displacement	cm ³	17.68
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	14.0

Dimensions

Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	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
- 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)

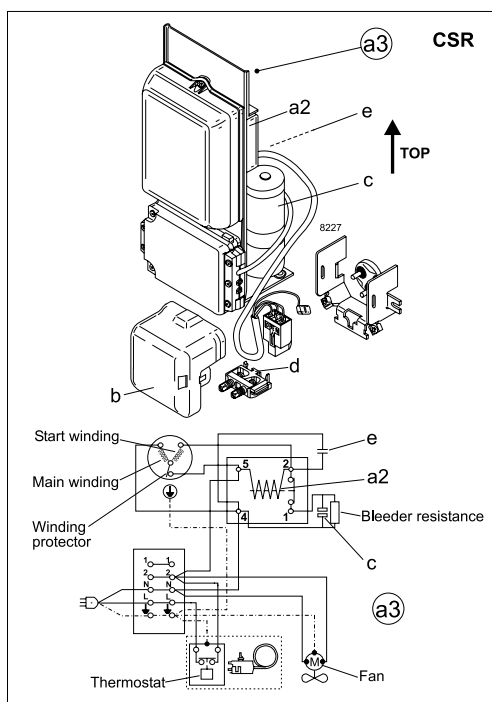
 220V, 50Hz, fan cooling F₂

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						831	968	1210	1497	1712	1832	2220	2665	2880			
Power cons. in W						676	722	790	860	907	931	1004	1080	1114			
Current cons. in A						3.57	3.76	4.07	4.40	4.63	4.75	5.12	5.51	5.69			
COP in W/W						1.23	1.34	1.53	1.74	1.89	1.97	2.21	2.47	2.59			

ASHRAE MBP

 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						762	887	1111	1380	1584	1698	2072	2507	2720			
Power cons. in W						703	757	838	920	975	1003	1087	1173	1212			
Current cons. in A						3.70	3.92	4.27	4.65	4.91	5.04	5.46	5.89	6.09			
COP in W/W						1.08	1.17	1.33	1.50	1.62	1.69	1.91	2.14	2.24			



Accessories for	SC18MLX	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE MBP
Sarting device	470 mm cable length	a3	117-7012	Condensing temperature	45°C	54.4°C
	550 mm cable length		117-7027	Ambient temperature	32°C	35°C
	650 mm cable length		117-7046	Suction gas temperature	32°C	35°C
	1000 mm cable length		117-7040	Liquid temperature	no subcooling	46.1°C
Cover		b	103N2009			
Starting relay	6.3 mm spade connectors	a2	Components of starting device	Mounting accessories		Code number
Start. capacitor 80 µF	6.3 mm spade connectors	c		Bolt joint for one comp.	Ø: 16 mm	118-1917
Run capacitor 10 µF	6.3 mm spade connectors	e		Bolt joint in quantities	Ø: 16 mm	118-1918
Cord relief		d	103N1004	Snap-on in quantities	Ø: 16 mm	118-1919

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