

SC18MLX.3
MBP Compressor
R404A/R507
220-240V 50Hz

General

Code number	104L2146
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 at max. ambient temperature

Cooling Requirements at maximum ambient temperature							
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

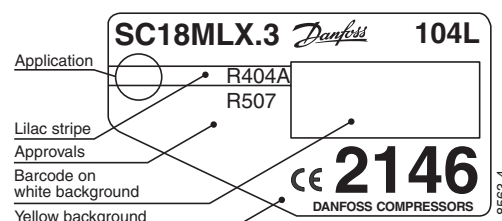
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	23.6	–
Cut in Current, HST LST	A	23.6	–
Resistance, main start winding (25°C)	Ω	3.4	14.4

Design

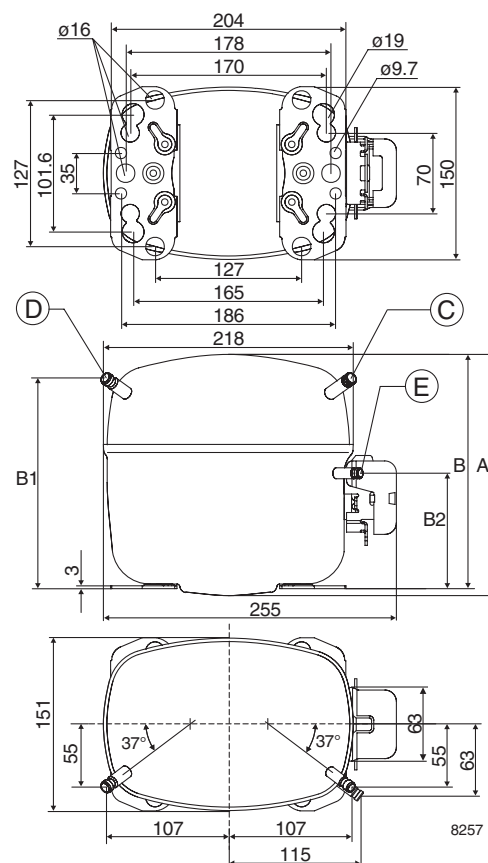
Displacement	cm ³	17.68
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	1300
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	14.0

Dimensions

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 caps	
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment	Cu-plated steel Al caps	
Discharge connector	location/I.D. mm angle	E	6.2 37°
	material comment	Cu-plated steel Al caps	
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

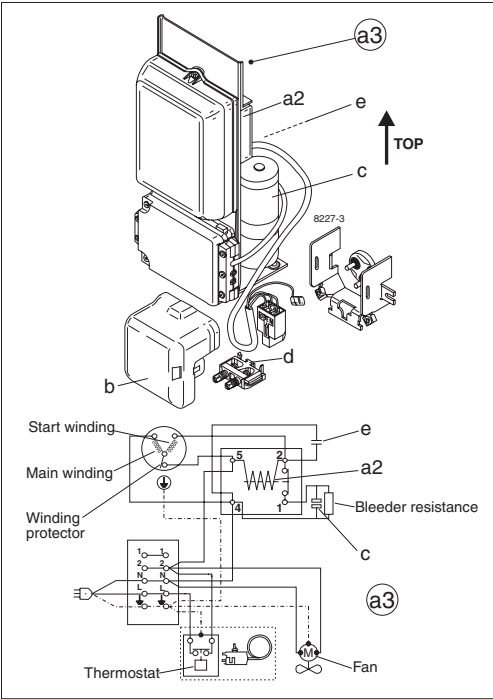


EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₂

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						876	1018	1266	1557	1779	1898	2292	2743	2964			
Power cons. in W						677	727	803	878	928	952	1025	1096	1127			
Current cons. in A						3.80	4.00	4.20	4.40	4.60	4.60	4.90	5.12	5.20			
COP in W/W						1.29	1.40	1.58	1.77	1.92	1.99	2.24	2.50	2.63			

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						816	947	1178	1454	1665	1780	2162	2606	2825			
Power cons. in W						716	773	861	949	1008	1038	1126	1215	1254			
Current cons. in A						3.76	3.92	4.17	4.43	4.61	4.70	4.99	5.28	5.42			
COP in W/W						1.14	1.22	1.37	1.53	1.65	1.72	1.92	2.15	2.25			



Accessories	Figure	Code number
Starting device	a3	117-7012
470 mm cable length		117-7027
550 mm cable length		117-7040
1000 mm cable length		
Cover	b	103N2009
Starting relay	a2	Components of starting device
Start. capacitor 80 µF	c	
Run capacitor 10 µF	e	
Cord relief	d	103N1004

Test conditions	EN 12900/CECOMAF	ASHRAE MBP
Condensing temperature	45°C	54.4°C
Ambient temperature	32°C	35°C
Suction gas temperature	32°C	35°C
Liquid temperature	no subcooling	46.1°C

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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