

SC18MLX MBP Compressor R404A/R507 115V 60Hz

General

Code number	104L2105
Approvals	UL984
Compressors on pallet	60

Application

Application	MBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-10 to 45	
Voltage range	V	-	103 -127	
Max. condensing temperature continuous (short)	°F	-	131 (140)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	-	F ₂	-
100°F		-	-	-	-	F ₂	-
110°F		-	-	-	-	F ₂	-
Remarks on application:							

Motor

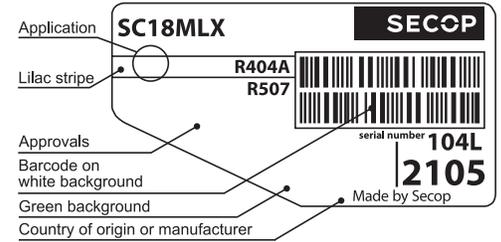
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	64.0	-
Cut in Current, HST LST	A	64.0	-
Resistance, main start winding (77°F)	Ω	0.6	2.7

Design

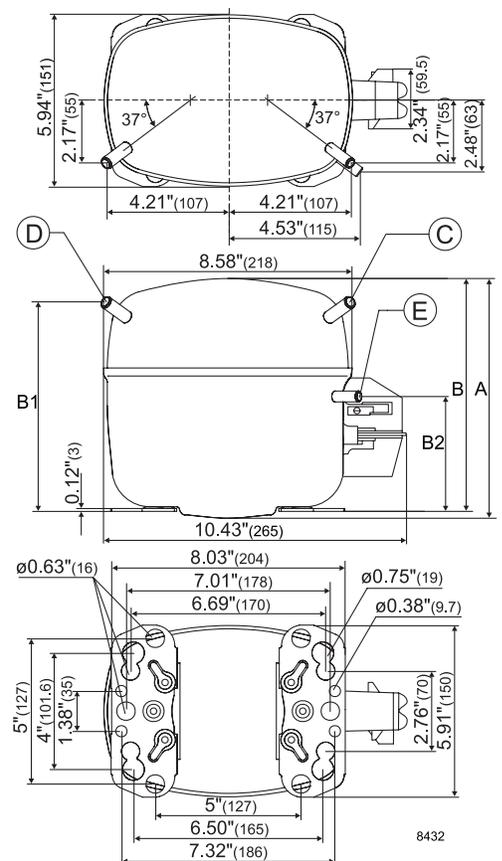
Displacement	cu.in	1.08
Oil quantity (type)	fl.oz.	20.3 (polyolester)
Maximum refrigerant charge	oz.	45.5
Free gas volume in compressor	fl.oz.	49.4
Weight without electrical equipment	lbs.	30.9

Dimensions

Height	inch	A	8.62
		B	8.39
		B1	7.60
		B2	4.33
Suction connector	location, I.D. in. angle	C	0.378-0.385 37°
	material comment		Copper Rubber plug
Process connector	location, I.D. in. angle	D	0.252-0.259 37°
	material comment		Copper Rubber plug
Discharge connector	location, I.D. in. angle	E	0.252-0.259 37°
	material comment		Copper Rubber plug
Oil cooler connector	location, I.D. in. angle	F	-
	material comment		-
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



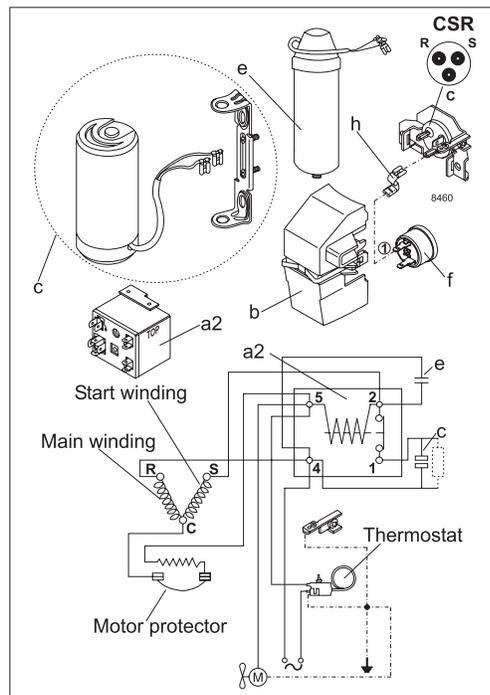
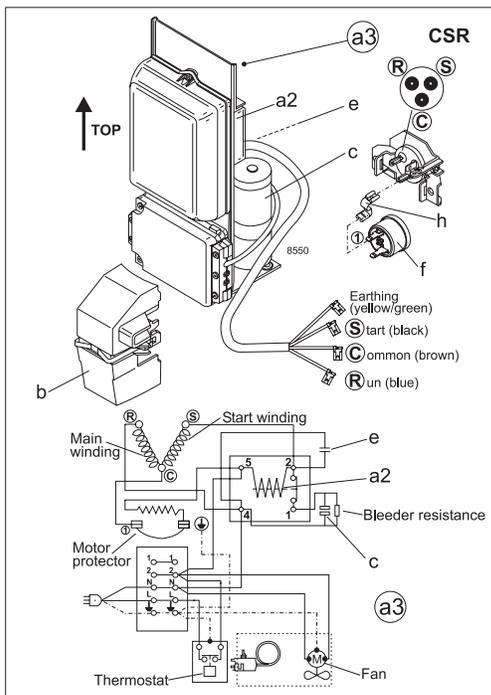
ASHRAE MBP

115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in BTU/h							2997	3894	4984	5481	6296	7855	9691	9891	10722		
Power cons. in W							878	1009	1138	1190	1268	1399	1533	1546	1602		
Current cons. in A							10.29	11.03	11.85	12.20	12.75	13.72	14.78	14.89	15.34		
EER in BTU/Wh							3.41	3.86	4.38	4.61	4.97	5.62	6.32	6.40	6.70		

EN 12900 Household (CECOMAF)* 115V, 60Hz, fan cooling F₂

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in W							985	1255	1583	1732	1975	2437	2976	3034	3276		
Power cons. in W							890	989	1090	1131	1194	1303	1417	1429	1477		
Current cons. in A							10.39	10.86	11.51	11.79	12.24	13.04	13.93	14.02	14.40		
COP in W/W							1.11	1.27	1.45	1.53	1.65	1.87	2.10	2.12	2.22		



Accessories for	SC18MLX	Figure	Code number
Starting device assembly			
CSR	23.6 in. cable length	a3	117-7045
CSIR	23.6 in. cable length		-
Starting device components			
Starting relay	1/4 in. spade connect.	a2	117-7441
Start. capacitor 410 µF	1/4 in. spade connect.	c	117U5043
Run capacitor 23.5 µF	1/4 in. spade connect.	e	117-7114
Cover		b	117U1021 *)
Protector		f	117U3188 *)
Protector holder		h	117U0439 *)
*) Remarks: Cover, protector, protector holder parts of compressor			

Test conditions	ASHRAE MBP	EN 12900/CECOMAF*
Condensing temp.	130°F	113°F
Ambient temperature	95°F	90°F
Suction gas temp.	95°F	90°F
Liquid temperature	115°F	no subcooling

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 5/8 in.	118-1917
Bolt joint in quantities	Ø: 5/8 in.	118-1918
Snap-on in quantities	Ø: 5/8 in.	118-1919

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