

SC15MLX MBP Compressor R404A/R507 115V 60Hz



General

Code number	104L1805
Approvals	UL984
Compressors on pallet	60

Application

Application	MBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-10 to 45	
Voltage range	V	-	95 - 135	
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: CSR: 95 - 135V, CSIR: 103 - 135V							

Motor

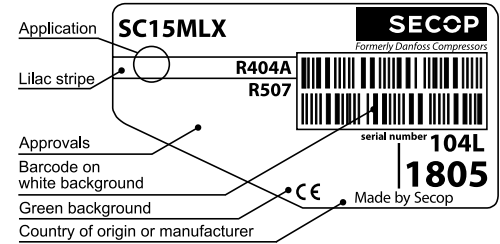
Motor type	CSIR/CSR		
LRA (rated after 4 sec. UL984), HST LST	A	64.0	-
Cut in Current, HST LST	A	64.0	-
Resistance, main start winding (77°F)	Ω	0.6	2.7

Design

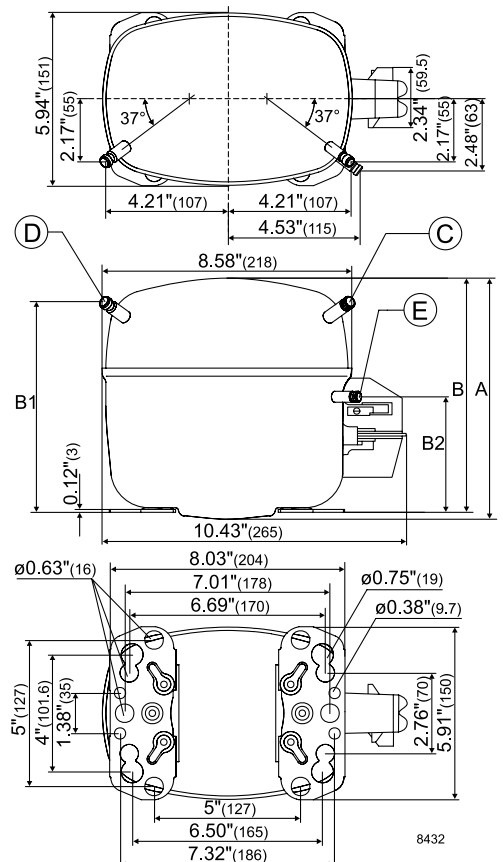
Displacement	cu.in	0.93
Oil quantity (type)	fl.oz.	20.3 (polyolester)
Maximum refrigerant charge	oz.	45.5
Free gas volume in compressor	fl.oz.	49.4
Weight without electrical equipment	lbs.	30.9

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		Cu-plated steel Al cap
Process connector	location, I.D. in. angle	D	0.252-0.259 37°
	material comment		Cu-plated steel Al cap
Discharge connector	location, I.D. in. angle	E	0.252-0.259 37°
	material comment		Cu-plated steel Al cap
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



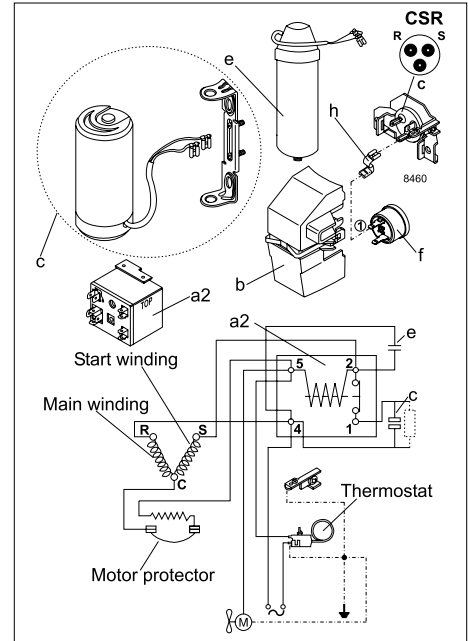
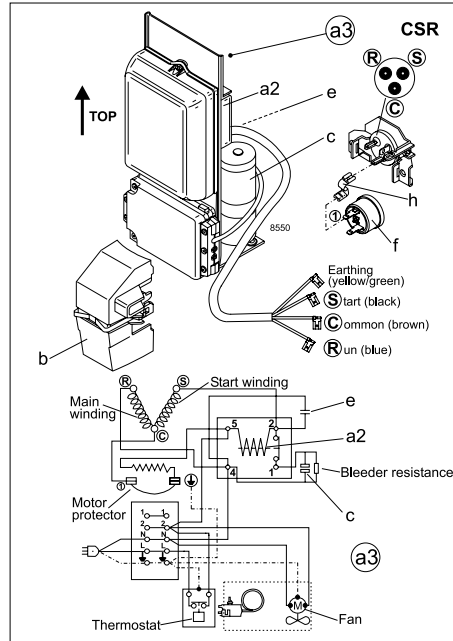
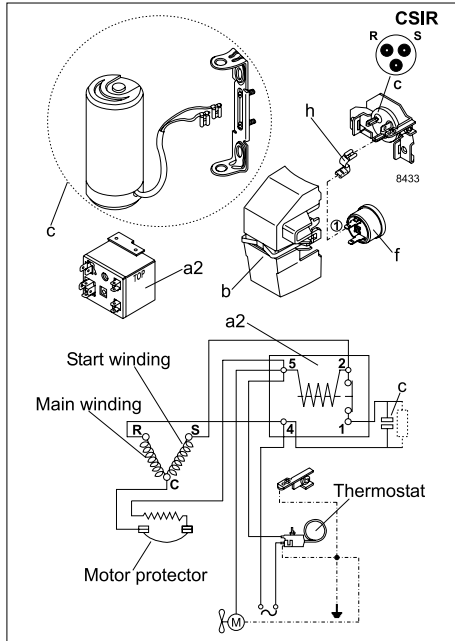
ASHRAE MBP

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						2295	3049	3967	4385	5070	6383	7928	8096	8795			
Power cons. in W						719	837	954	1000	1070	1188	1309	1321	1371			
Current cons. in A						9.88	10.59	11.37	11.71	12.24	13.17	14.19	14.29	14.72			
EER in BTU/Wh						3.19	3.64	4.16	4.38	4.74	5.37	6.06	6.13	6.42			

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						771	901	1129	1399	1601	1714	2078	2495	2696			
Power cons. in W						730	783	864	947	1003	1033	1122	1216	1259			
Current cons. in A						9.88	10.20	10.73	11.32	11.74	11.97	12.69	13.46	13.82			
COP in W/W						1.06	1.15	1.31	1.48	1.60	1.66	1.85	2.05	2.14			



Accessories for	SC15MLX	Figure	Code number
Starting device assembly			
CSR	23.6 in. cable length	a3	117-7045
CSIR	23.6 in. cable length		117-7053
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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