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SC12CL
LBP Compressor
R404A/R507
115V 60Hz General

Code number	104L1603
Approvals	UL984
Compressors on pallet	80

Application

Application	LBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	—	-40 to 10	
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

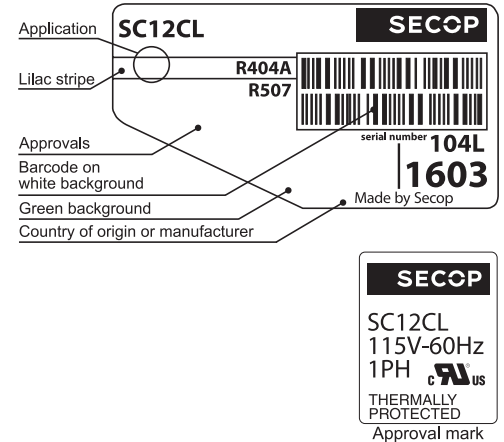
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	41.9	—
Cut in Current, HST LST	A	41.9	—
Resistance, main start winding (77°F)	Ω	1.0	4.3

Design

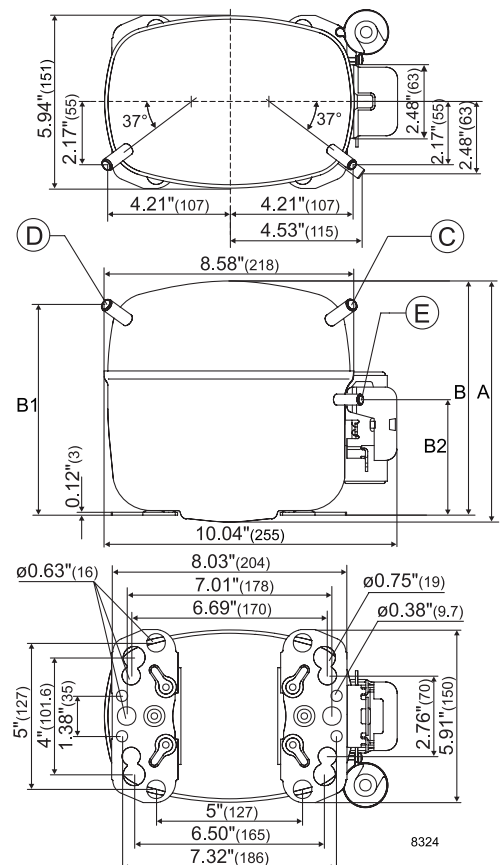
Displacement	cu.in	0.78
Oil quantity (type)	fl.oz.	18.6 (polyolester)
Maximum refrigerant charge	oz.	45.8
Free gas volume in compressor	fl.oz.	51.1
Weight without electrical equipment	lbs.	27.7

Dimensions

Height	inch	A	8.23
		B	8.00
		B1	7.20
		B2	3.93
Suction connector	location, I.D. in. angle	C	0.320-0.327 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 LBP115V, 60Hz, fan cooling F₂

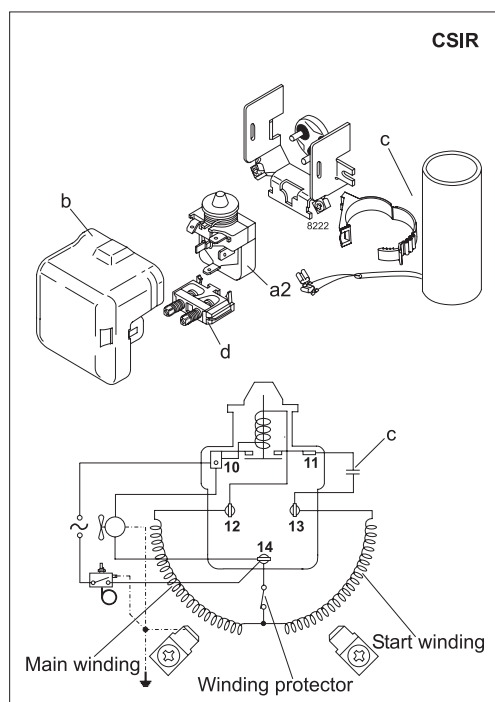
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in BTU/h		143	842	1577	2127	2374	3255	4246									
Power cons. in W		212	374	510	595	629	739	848									
Current cons. in A		4.92	5.44	6.08	6.60	6.84	7.73	8.74									
EER in BTU/Wh		0.68	2.25	3.09	3.58	3.77	4.40	5.01									

ASHRAE LBP*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		648	1229	1871	2366	2592	3414	4356									
Power cons. in W		322	436	535	599	627	720	822									
Current cons. in A		5.32	5.69	6.17	6.59	6.78	7.52	8.38									
EER in BTU/Wh		2.01	2.82	3.50	3.95	4.14	4.74	5.30									

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		146	297	463	590	648	857	1095									
Power cons. in W		308	429	533	600	628	723	826									
Current cons. in A		5.26	5.64	6.15	6.58	6.79	7.55	8.43									
COP in W/W		0.48	0.69	0.87	0.98	1.03	1.18	1.33									



Accessories for	SC12CL	Figure	Code number	Test conditions	ASHRAE LBP	ASHRAE LBP*	EN 12900/CECOMAF*
PTC starting device	1/4 in. spade connect.	—	—	Condensing temp.	130°F	110°F	113°F
	3/16 in. spade connect.		—	Ambient temperature	90°F	90°F	90°F
Starting relay	1/4 in. spade connect.	a2	117U6020	Suction gas temp.	90°F	90°F	90°F
Cover		b	103N2008	Liquid temperature	90°F	90°F	no subcooling
Start. capacitor 240 µF	1/4 in. spade connect.	c	117U5023				
Cord relief		d	103N1004				
Protection screen for PTC		—	—				
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	