

SC12CLX.2

LBP Compressor

R404A/R507

115V 60Hz

Data Sheet

General

Compressor	SC12CLX.2
Codenummer (CU-plated steel connectors)	104L1696

Application

Application	LBP
Evaporating temperature range °F (°C)	-40 to 20 (-40 to -6.7)
Voltage range V/Hz	103 - 127 /60
Motor type	CSIR
Max. ambient temperature °F (°C)	110 (43)
Comp. cooling at max. ambient temperature 110°F (43°C)	F ₂

Design

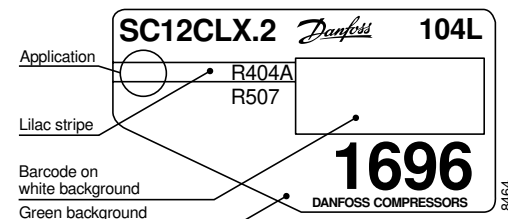
Displacement cu.in. (cm ³)	0.78 (12.87)
Oil quantity fl.oz. (cm ³)	18.6 (550)
Maximum refrigerant charge oz. (g)	45.8 (1300)
Free gas vol. in compressor housing fl.oz. (cm ³)	51.1 (1510)
Weight without electrical equipment lbs. (kg)	27.7 (12.6)

Motor

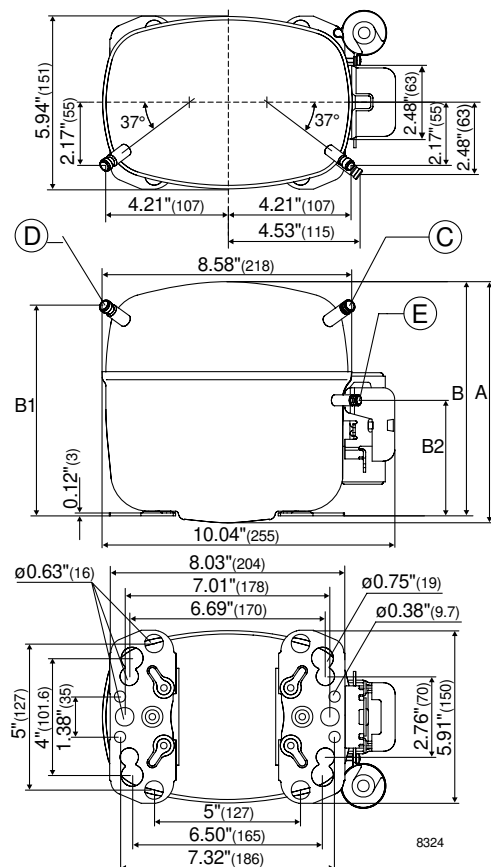
Motor size watt	540
LRA (rated after 4 sec.UL984) HST A	41.9
Cut-in current HST A	41.9
Resistance, main and start winding (77°F) Ω	1.0/4.3
Approvals	UL984/CSA-C22.2

Dimensions

Height in. (mm)	A 8.23 (209)
	B 8.00 (203)
	B1 7.20 (183)
	B2 3.93 (100)
Suction connector location/I.D. in. (mm)	C 0.320-0.327 (8.2±0.09)
Process connector location/I.D. in. (mm)	D 0.252-0.259 (6.5±0.09)
Discharge connector location/I.D. in. (mm)	E 0.252-0.259 (6.5±0.09)
Compressors on a pallet pcs.	80



- 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



Capacity ASHRAE in Btu/h - EN 12900/CECOMAF in watt

Evap. temp in°F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in°C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP					2550			5250
ASHRAE LBP*	950	1500		2540	2730			5350
EN 12900	240	380		645	690			1290

Power consumption (ASHRAE, EN 12900/CECOMAF) watt

Evap. temp in°F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in°C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP					617			930
ASHRAE LBP*	380	460		585	616			
EN 12900	360	450		585	616			

Current consumption (ASHRAE, EN 12900/CECOMAF) A

Evap. temp in°F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in°C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP					6.95			9.50
ASHRAE LBP*	5.35	6.10		6.65	6.90			
EN 12900	5.30	6.00		6.65	6.90			

EER / COP ASHRAE in Btu/Wh - EN 12900/CECOMAF in W/W

Evap. temp in°F	-40	-30	-20	-13	-10	0	10	20
Evap. temp in°C	-40	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
ASHRAE LBP					4.13			5.64
ASHRAE LBP*	2.50	3.26		4.34	4.43			
EN 12900	0.66	0.84		1.10	1.12			

Test conditions	ASHRAE LBP	ASHRAE LBP*	EN 12900
Condensing temp.	130°F (54.4°C)	110°F (43.3°C)	45°C (113°F)
Suction gas temp.	90°F (32°C)	90°F (32°C)	32°C (90°F)
Ambient temp.	90°F (32°C)	90°F (32°C)	32°C (90°F)
Liquid temp.	90°F (32°C)	90°F (32°C)	45°C (113°F)
Cooling	Fan F ₂	Fan F ₂	Fan F ₂
V/Hz	115/60	115/60	115/60

Design limits:

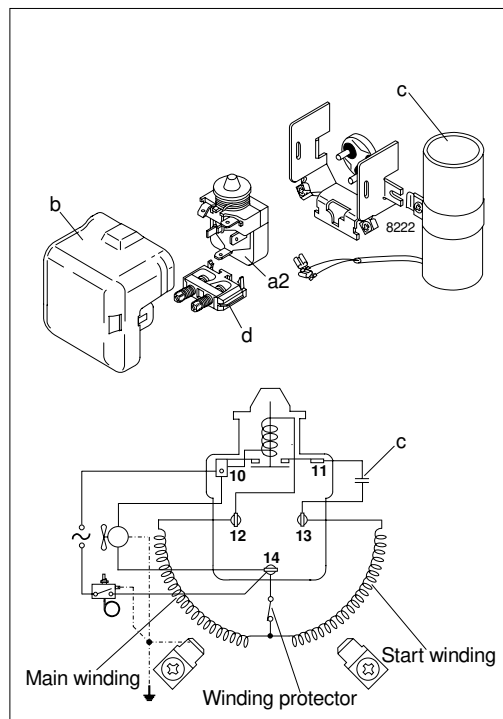
Max. cond. temp. °F (°C) stable 120 (49)

Max. cond. temp. °F (°C) peak 135 (58)

preliminary data

Accessories

Devices	Fig.	SC12CLX.2
Starting relay	a2	117U6020
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919



Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

Danfoss