

# SC12FTX Tropical Compressor R134a 115-127V 60Hz



## General

Code number	104G7205
Approvals	UL984
Compressors on pallet	80

## Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-31 to 23	
Voltage range	V	-	95 - 135	
Max. condensing temperature continuous (short)	°F	-	140 (158)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

## Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
100°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
110°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-

Remarks on application: Not applicable below -20°F evaporating temperature in 110°F ambient temperature above 127V.

## Motor

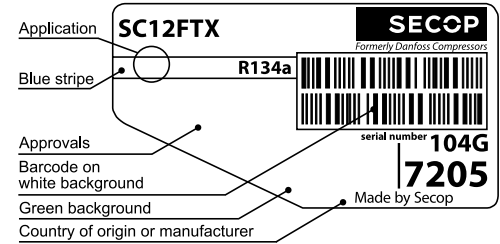
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	38.2	-
Cut in Current, HST   LST	A	38.2	-
Resistance, main   start winding (77°F)	Ω	1.2	4.2

## Design

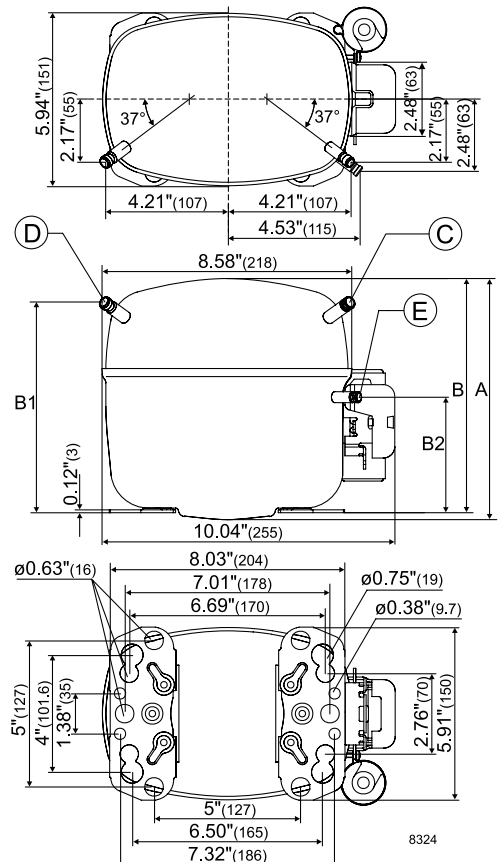
Displacement	cu.in	0.78
Oil quantity (type)	fl.oz.	20.3 (polyolester)
Maximum refrigerant charge	oz.	45.5
Free gas volume in compressor	fl.oz.	49.4
Weight without electrical equipment	lbs.	27.7

## Dimensions

Height	inch	A	8.23
		B	8.00
Suction connector	location, I.D. in.   angle	C	0.320-0.327   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
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**ASHRAE**

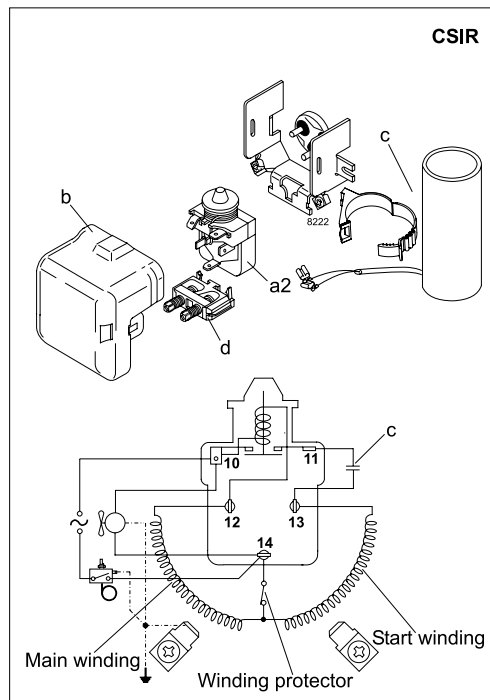
115V, 60Hz, fan cooling F<sub>2</sub>

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			563	889	1155	1280	1753	2324	2583	3008							
Power cons. in W			244	302	343	360	419	478	502	537							
Current cons. in A			5.01	5.28	5.48	5.57	5.88	6.20	6.34	6.55							
EER in BTU/Wh			2.30	2.94	3.37	3.55	4.18	4.86	5.15	5.60							

**EN 12900 Household (CECOMAF)**

115V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in W			132	210	273	303	415	549	610	710							
Power cons. in W			244	302	343	360	419	478	502	537							
Current cons. in A			5.01	5.28	5.48	5.57	5.88	6.20	6.34	6.55							
COP in W/W			0.54	0.70	0.80	0.84	0.99	1.15	1.21	1.32							



Accessories for	SC12FTX	Figure	Code number
PTC starting device	1/4 in. spade connect.	-	-
	3/16 in. spade connect.	-	-
Starting relay	1/4 in. spade connect.	a2	117U6012
Cover		b	103N2008
Start. capacitor 240 µF	1/4 in. spade connect.	c	117U5023
Cord relief		d	103N1004
Protection screen for PTC		-	-

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temp.	130°F	131°F
Ambient temperature	90°F	90°F
Suction gas temp.	90°F	90°F
Liquid temperature	90°F	131°F

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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