

SC15FTX Tropical Compressor R134a 115-127V 60Hz & 100V 50/60Hz



General

Code number	104G7505
Approvals	UL984
Compressors on pallet	80

Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-31 to 23	-31 to 23	
Voltage range	V	90 - 110	90 - 135	
Max. condensing temperature continuous (short)	°F	140 (158)	140 (158)	
Max. winding temperature continuous (short)	°F	257 (275)	257 (275)	

Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
90°F		F ₂	F ₂	-	F ₂	F ₂	-
100°F		F ₂	F ₂	-	F ₂	F ₂	-
110°F		F ₂	F ₂	-	F ₂	F ₂	-
Remarks on application: LBP 90 - 110V, 60Hz MBP 95 - 135, 60Hz							

Motor

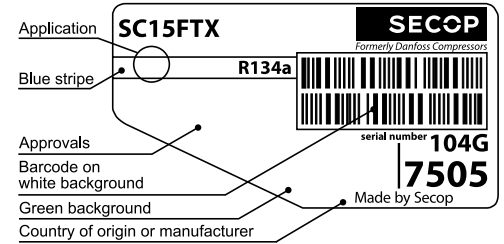
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	42.0	-
Cut in Current, HST LST	A	42.0	-
Resistance, main start winding (77°F)	Ω	1.0	4.3

Design

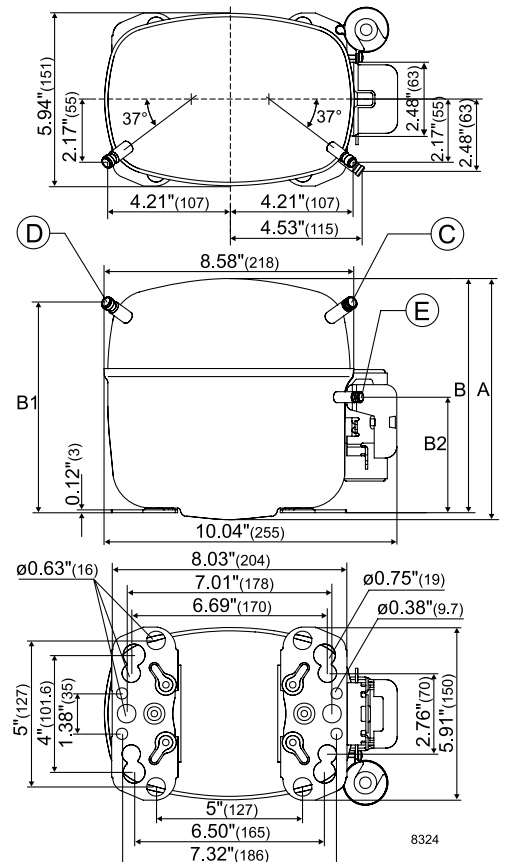
Displacement	cu.in	0.93
Oil quantity (type)	fl.oz.	20.3 (polyolester)
Maximum refrigerant charge	oz.	45.5
Free gas volume in compressor	fl.oz.	49.4
Weight without electrical equipment	lbs.	27.7

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		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

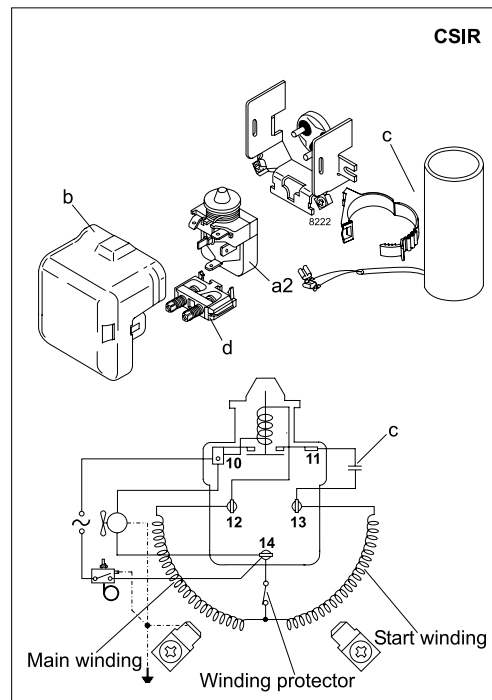
115V, 60Hz, fan cooling F₂

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			711	1094	1404	1550	2096	2750	3046	3531							
Power cons. in W			237	325	382	405	481	555	585	632							
Current cons. in A			4.82	5.27	5.60	5.75	6.26	6.81	7.03	7.39							
EER in BTU/Wh			3.00	3.37	3.68	3.83	4.36	4.95	5.20	5.58							

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			167	258	332	367	497	652	722	836							
Power cons. in W			237	325	382	405	481	555	585	632							
Current cons. in A			4.82	5.27	5.60	5.75	6.26	6.81	7.03	7.39							
COP in W/W			0.72	0.80	0.87	0.91	1.03	1.17	1.23	1.32							



Accessories for	SC15FTX	Figure	Code number
PTC starting device	1/4 in. spade connect.	-	-
	3/16 in. spade connect.	-	-
Starting relay	1/4 in. spade connect.	a2	117U6020
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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