

NF7FX Standard Compressor R134a 220V 50/60Hz



General

Code number	105G6743
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-30 to 45	-30 to 45	
Voltage range	V	198 - 242	198 - 242	
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		S	S	-	F ₁	F ₁	-
100°F		F ₁	F ₁	-	F ₁	F ₁	-
110°F		-	-	-	-	-	-
Remarks on application:							

Motor

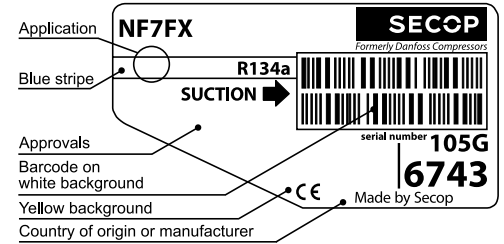
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	15.8	-
Cut in Current, HST LST	A	15.8	-
Resistance, main start winding (77°F)	Ω	5.8	12.6

Design

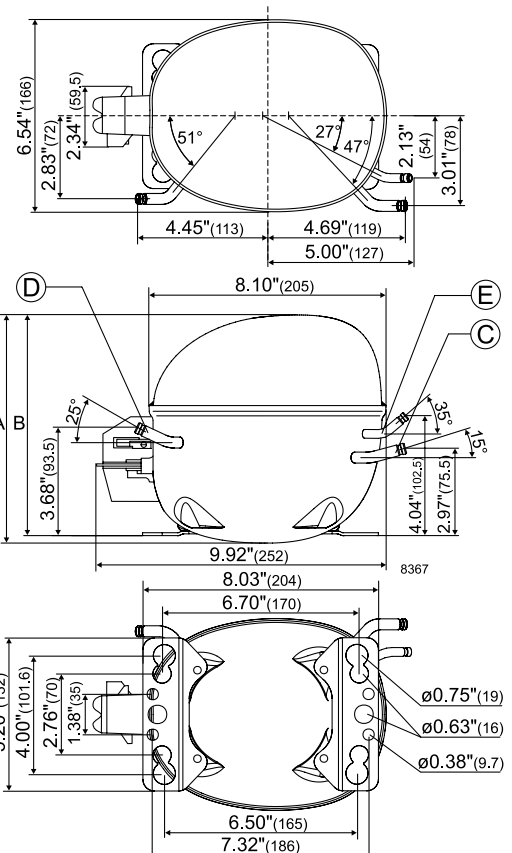
Displacement	cu.in	0.44
Oil quantity (type)	fl.oz.	10.8 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	23.0

Dimensions

Height	inch	A	8.00
		B	7.76
		B1	-
		B2	-
Suction connector	location, I.D. in. angle	C	0.320-0.327 15°
		material comment	Copper Ruber plug
Process connector	location, I.D. in. angle	D	0.252-0.259 25°
		material comment	Copper Ruber plug
Discharge connector	location, I.D. in. angle	E	0.252-0.259 35°
		material comment	Copper Ruber 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 LBP

220V, 50Hz, static cooling

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			341	496	630	696	943	1255	1400	1630	2086	2604	2670	2899			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
EER in BTU/Wh			2.55	3.13	3.58	3.79	4.52	5.36	5.73	6.27	7.29	8.35	8.48	8.90			

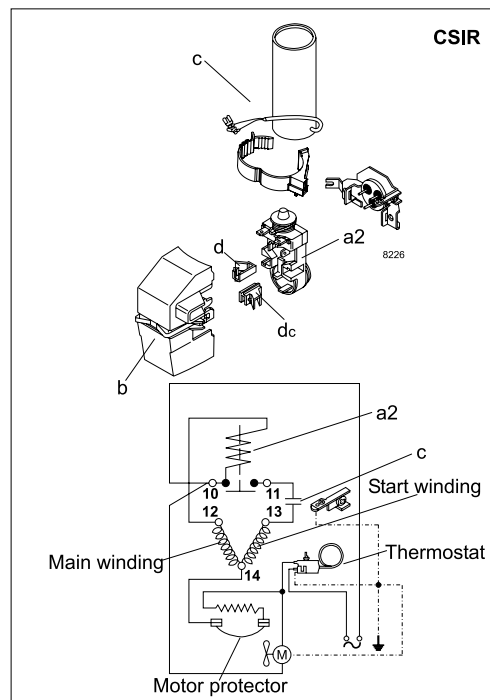
ASHRAE MBP

220V, 50Hz, static cooling

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			304	442	562	620	840	1117	1250	1450	1854	2312	2370	2573			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
EER in BTU/Wh			2.27	2.80	3.19	3.37	4.02	4.76	5.08	5.56	6.46	7.36	7.46	7.87			

EN 12900 Household (CECOMAF) 220V, 50Hz, static cooling

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	40	41	45	50	59	68
Capacity in W			82	119	151	167	226	301	336	390	498	622	638	691			
Power cons. in W			134	158	176	184	209	235	247	261	287	314	318	327			
Current cons. in A			1.70	1.73	1.76	1.78	1.83	1.89	1.91	1.95	2.02	2.10	2.11	2.14			
COP in W/W			0.61	0.75	0.86	0.91	1.08	1.28	1.36	1.49	1.73	1.98	2.01	2.11			



Accessories for	NF7FX	Figure	Code number
Starting relay	1/4 in. spade connect.	a2	117U4140
Protector 3/4 in.	Texas Instruments		MRP56EN-6
Cover		b	117U1023
Start. capacitor 125 µF	1/4 in. spade connect.	c	117U5018
Cord relief		d	117U0349
Cord relief capacitor		dc	117U0349

Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Condensing temp.	130°F	130°	131°F
Ambient temp.	90°F	95°	90°F
Suction gas temp	90°F	95°	90°F
Liquid temperature	90°F	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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