

NF10FX Standard Compressor R134a 220V 50/60Hz

General

Code number	105G6846
Approvals	EN 60335-2-34, UL984
Compressors on pallet	80

Application

Application	LBP/MBP			
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		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		F ₁	F ₁	—	F ₂	F ₂	—
100°F		F ₂	F ₂	—	F ₂	F ₂	—
110°F		—	—	—	—	—	—
Remarks on application:							

Motor

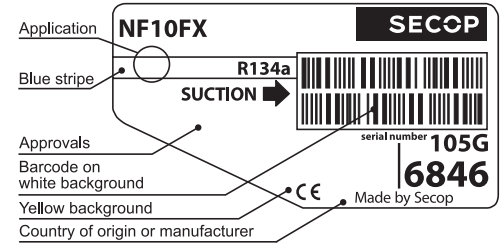
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	20.0	—
Cut in Current, HST LST	A	20.0	—
Resistance, main start winding (77°F)	Ω	4.5	12.8

Design

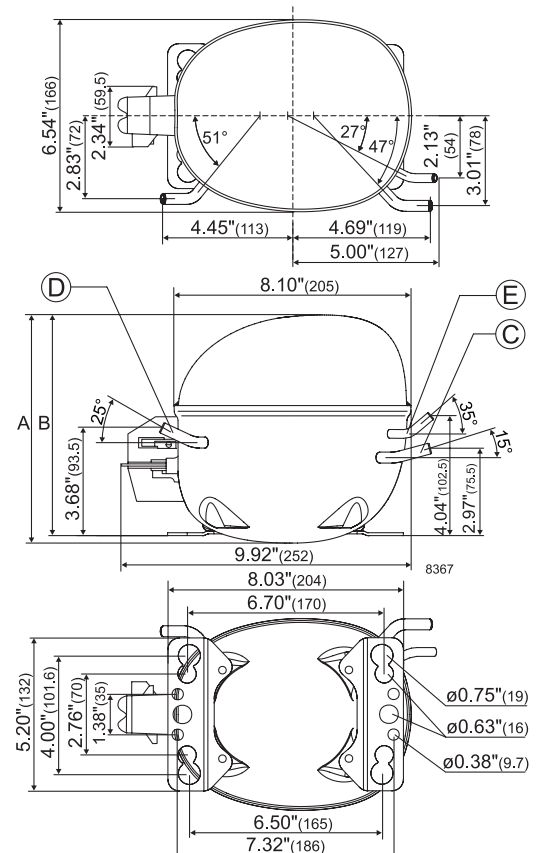
Displacement	cu.in	0.62
Oil quantity (type)	fl.oz.	10.8 (polyolester)
Maximum refrigerant charge	oz.	16.1
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	23.0

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 Rubber plug
Process connector	location, I.D. in. angle	D	0.252-0.259 25°
	material comment		Copper Rubber plug
Discharge connector	location, I.D. in. angle	E	0.252-0.259 35°
	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



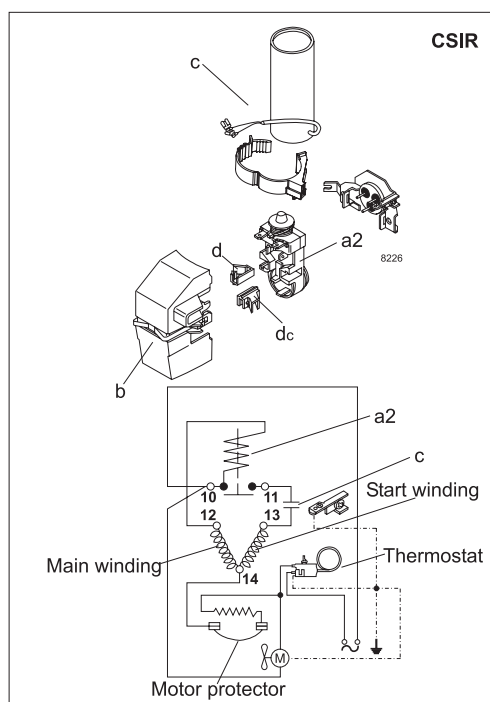
ASHRAE LBP

 220V, 50Hz, 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			449	648	821	905	1222	1623	1804	2104	2693	3374	3454	3759			
Power cons. in W			214	248	272	283	318	354	368	390	426	462	466	481			
Current cons. in A			2.65	2.70	2.73	2.75	2.81	2.88	2.91	2.96	3.05	3.15	3.17	3.21			
EER in BTU/Wh			2.09	2.61	3.02	3.20	3.85	4.60	4.92	5.42	6.34	7.33	7.44	7.86			

EN 12900 Household (CECOMAF) 220V, 50Hz, 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			108	156	197	217	293	389	432	503	643	804	823	895			
Power cons. in W			214	248	272	283	318	354	368	390	426	462	466	481			
Current cons. in A			2.65	2.70	2.73	2.75	2.81	2.88	2.91	2.96	3.05	3.15	3.17	3.21			
COP in W/W			0.51	0.63	0.72	0.77	0.92	1.10	1.17	1.29	1.51	1.74	1.77	1.86			



Accessories for	NF10FX	Figure	Code number
Starting relay	1/4 in. spade connect.	a2	117U4139
Protector 3/4 in.	Texas Instruments		MRP56EN-6
Cover		b	117U1021
Start. capacitor 125 µF	1/4 in. spade connect.	c	117U5018
Cord relief		d	117U0349
Cord relief capacitor		dc	117U0349

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