

## Single Pack NF7FK 115-127V 60Hz CSIR

Single pack code number: **195B4155**

Position	Title	Code	Amount
1	Compressor NF7FK	105G5728	1
2	Starting relay (overload protector MRT30AEZ-6)	117U4132	1
3	Starting capacitor (320 $\mu$ F 125V, 6.3mm)	117U5022	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor   M6   $\varnothing$ 16mm	118-1917	1

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## NF7FK Standard Compressor R134a 115-127V 60Hz

### General

Code number	105G5728
Approvals	UL984
Compressors on pallet	80

### Application

Application	LBP/MBP			
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-31 to 45	
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		
Application		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	S	S	-
100°F		-	-	-	S	S	-
110°F		-	-	-	F <sub>1</sub>	F <sub>1</sub>	-

Remarks on application: In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

### Motor

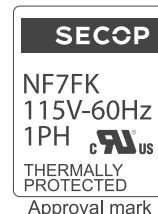
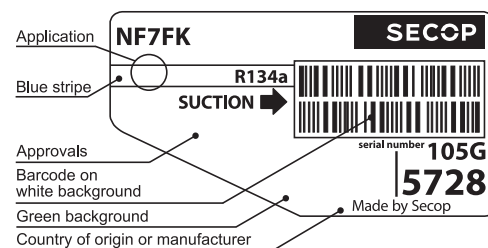
Motor type	RSIR/CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	-	29.4
Cut in Current, HST   LST	A	-	29.4
Resistance, main   start winding (77°F)	Ω	2.0	9.1

### Design

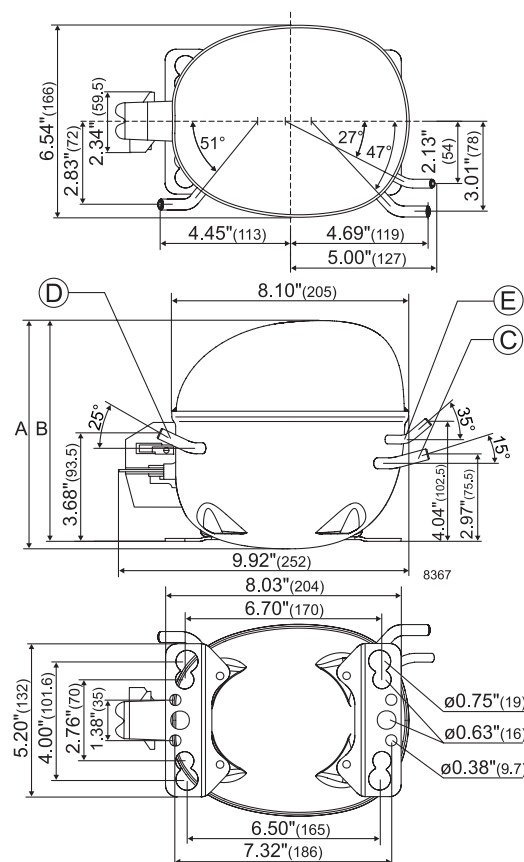
Displacement	cu.in	0.44
Oil quantity (type)	fl.oz.	10.8 (polyolester)
Maximum refrigerant charge	oz.	14.0
Free gas volume in compressor	fl.oz.	79.7
Weight without electrical equipment	lbs.	23.0

### 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   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
- 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 LBP**

115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h			401	600	758	833	1112	1451	1604	1861	2355	2463	2946	3282			
Power cons. in W			130	168	193	204	238	271	285	303	336	344	369	385			
Current cons. in A			2.52	2.69	2.81	2.87	3.05	3.25	3.34	3.45	3.66	3.72	3.88	4.00			
EER in BTU/Wh			3.08	3.57	3.93	4.09	4.68	5.35	5.63	6.13	7.01	7.17	7.99	8.52			

**ASHRAE MBP**

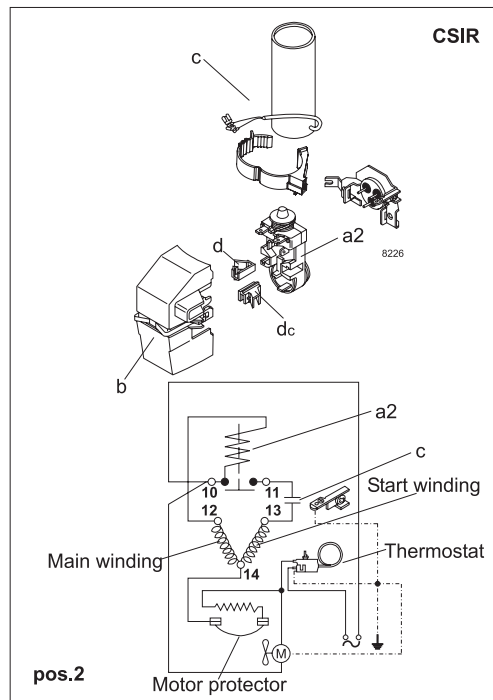
115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h			357	533	674	740	988	1288	1194	1651	2089	2194	2611	2907			
Power cons. in W			130	168	193	204	238	271	284	303	336	342	369	385			
Current cons. in A			2.52	2.69	2.81	2.87	3.05	3.25	3.33	3.45	3.66	3.71	3.88	4.00			
EER in BTU/Wh			2.74	3.18	3.49	3.64	4.16	4.76	5.05	5.44	6.22	6.41	7.08	7.55			

**EN 12900 Household (CECOMAF)**

115V, 60Hz, fan cooling F<sub>1</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in W			95	142	180	198	264	344	380	441	557	583	696	775			
Power cons. in W			130	168	193	204	238	271	285	303	336	344	369	385			
Current cons. in A			2.52	2.69	2.81	2.87	3.05	3.25	3.34	3.45	3.66	3.72	3.88	4.00			
COP in W/W			0.73	0.84	0.93	0.97	1.11	1.26	1.33	1.45	1.65	1.69	1.88	2.00			



Accessories for	NF7FK	Figure	Code number
Starting relay	1/4 in. spade connect.	a2	117U4131
Protector 3/4 in.	Texas Instruments	(pos.1)	MRT30AEZ-6
Starting relay	1/4 in. spade connect.	a2	117U4132
Protector 3/4 in.	Texas Instruments	(pos.2)	MRT30AEZ-6
Start. capacitor 320 µF	1/4 in. spade connect.	c	117U5022
Cord relief for capacitor		dc	117U0349
Cord relief		d	117U0349
Cover		b	117U1021

Test conditions	ASHRAE LBP	ASHRAE MBP	EN 12900/CECOMAF
Condensing temp.	130°F	130°F	131°F
Ambient temp.	90°F	95°F	90°F
Suction gas temp.	90°F	95°F	90°F
Liquid temperature	90°F	115°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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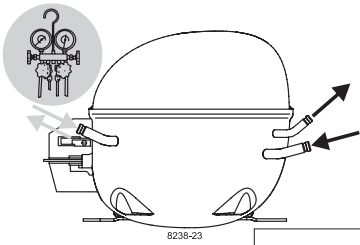
# NF Compressors



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