Single
Packs

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 (320µF 125V, 6.3mm)	117U5022	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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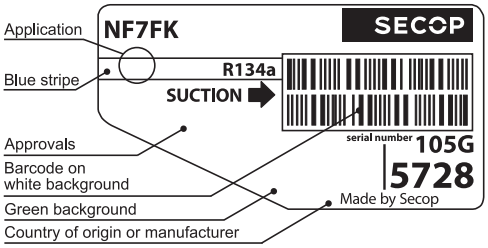
NF7FK
Standard Compressor
R134a
115-127V 60Hz



Approval mark

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_1	F_1	–
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).							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s
(compressor compartment temperature
equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

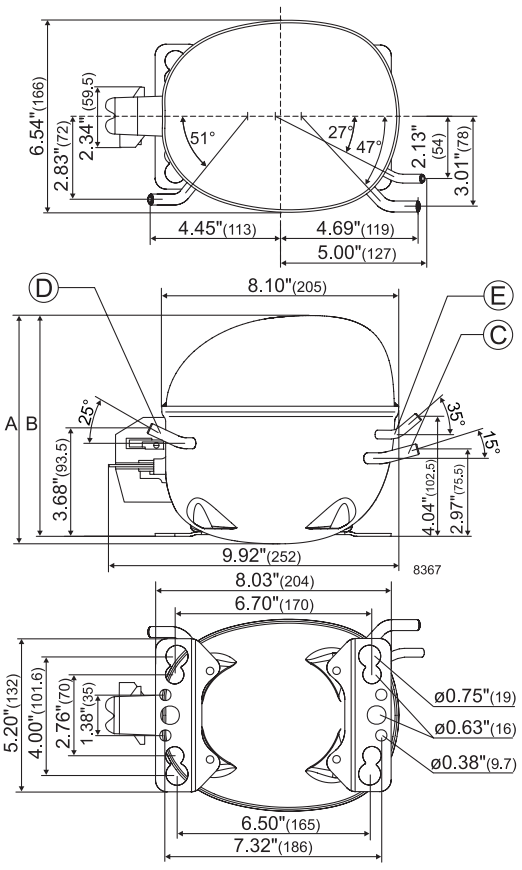
Motor type		RSIR/CSIR	
LRA (rated after 4 sec. UL984), HST | LST	A	–	29.4
Cut in Current, HST | LST	A	–	29.4
Resistance, main | start winding (77°F)	Ω	2.0	9.1

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:			



ASHRAE LBP 115V, 60Hz, fan cooling F_1

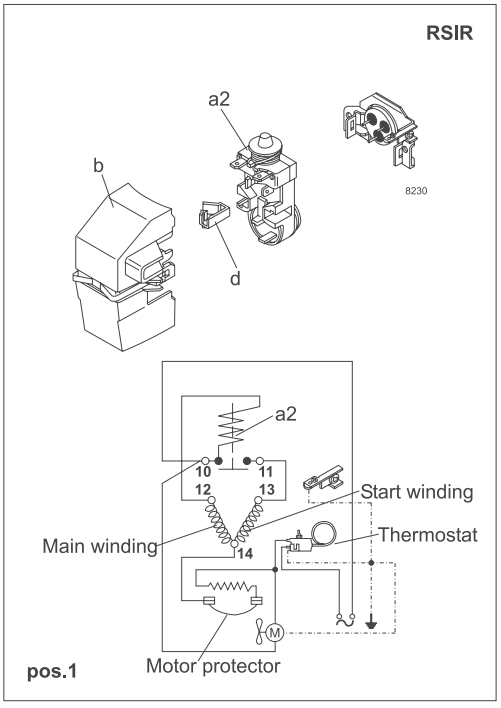
Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	45	50	59	68
Capacity in BTU/h			401	600	758	833	1112	1451	1604	1861	2355	2463	2946	3282			
Power cons. in W			130	168	193	204	238	271	285	303	336	344	369	385			
Current cons. in A			2.52	2.69	2.81	2.87	3.05	3.25	3.34	3.45	3.66	3.72	3.88	4.00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

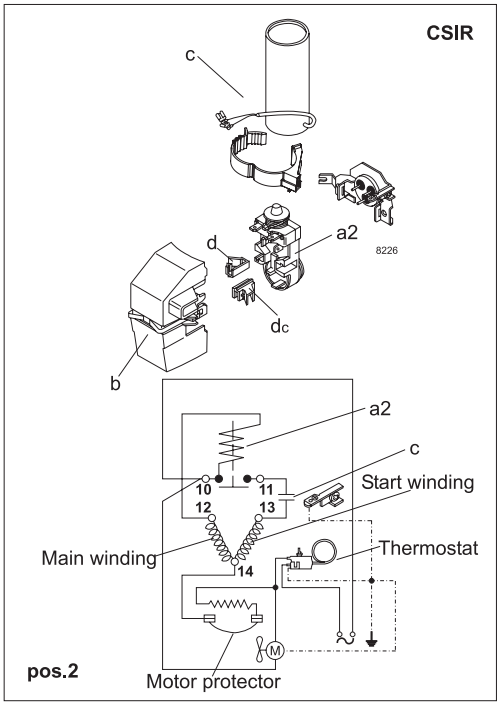
ASHRAE MBP 115V, 60Hz, fan cooling F_1

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_1

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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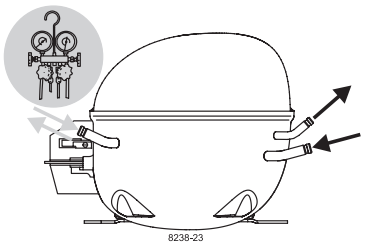

NF Compressors

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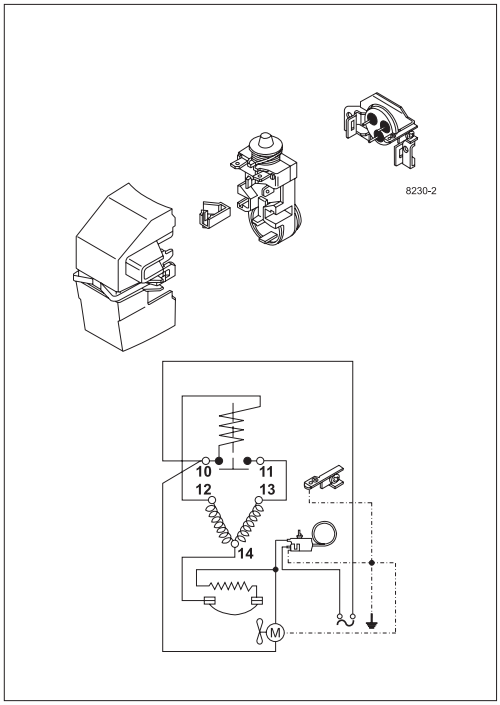

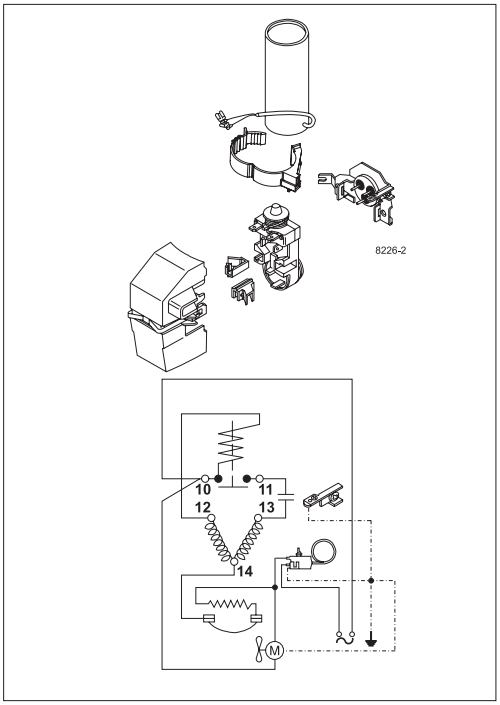

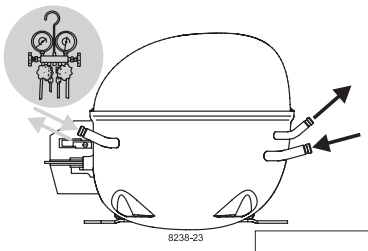

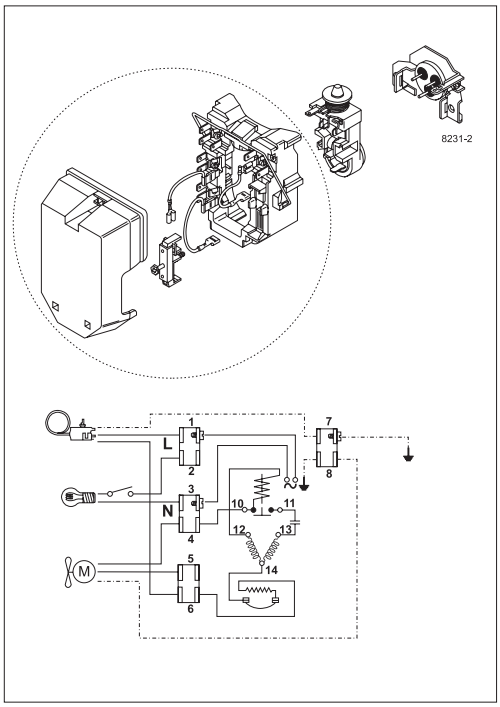

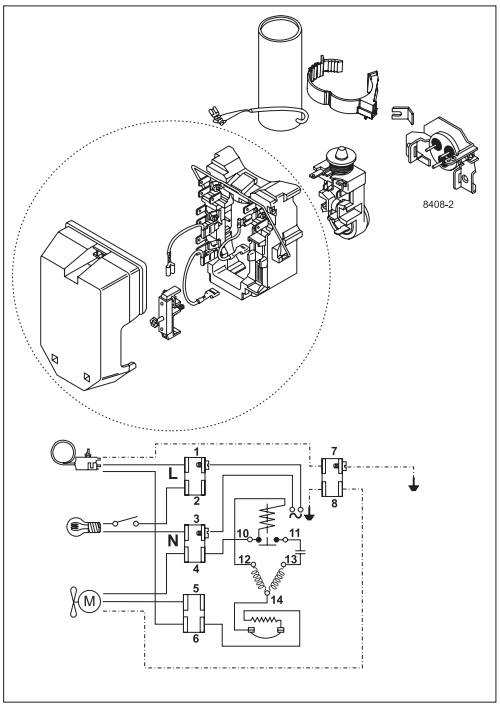

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