

Model
NF6FK

Sales code:
105G5628

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	6.13 cm3 / 0.37cu.in
Compressors on pallet	80



General – Configurations With NF6FK

-	Conf. 1	Conf. 2
Motor configuration	CSIR	RSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL	UL
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
Long interval pull down	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

Oil type	POE	Winding resistance main	2.000 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.10 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

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Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	-
Bolt joint ø1/4" ø19mm	118-1949	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	320 µF
LRA (locked rotor amps / 4s/ U(N))	24 A
RLA (rated load amps / 1s/ U(N))	3.6 A

Ambient/ machine room temperatures minimum /maximum

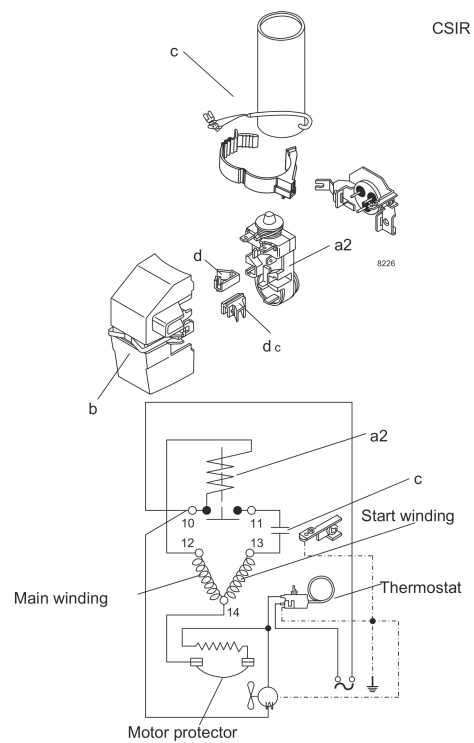
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components

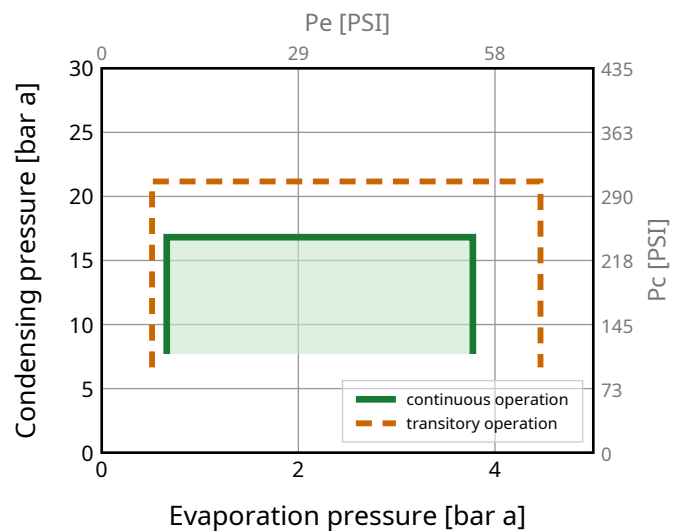
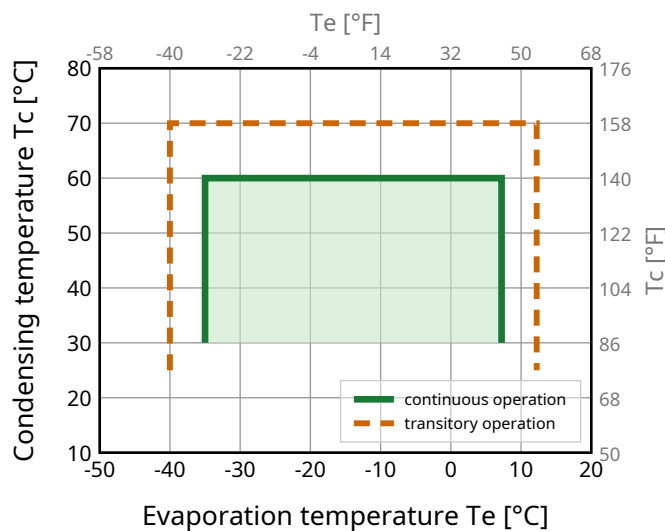
a2 current relay 117U4132

c start capacitor (320µF) 117U5022

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Configuration 1

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Standard Conditions

R134a, 115 V/60 Hz, CSIR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	196	668	168	1.14	3.87	172	2.65	3.80	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	142	486	123	0.88	3.00	162	2.60	3.40	CECOMAF LBP
-35 -31	40 104	20 68	40 104	97	331	83	0.89	3.03	109	2.41	2.12	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	408	1391	351	1.57	5.37	259	3.19	8.88	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	317	1082	273	1.30	4.43	244	3.08	7.65	CECOMAF MBP
-10 14	45 113	20 68	45 113	361	1232	310	1.57	5.35	230	2.98	8.42	EN12900 MBP

Performance Tables

R134a, 115 V/60 Hz, CSIR, static

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	87	298	75	0.82	2.80	106	2.37	1.88
-30	-22	127	434	109	0.94	3.20	136	2.48	2.74
-20	-4	230	783	197	1.23	4.20	186	2.72	4.98
-10	14	374	1276	322	1.62	5.54	230	2.98	8.17
0	32	574	1957	493	2.12	7.22	271	3.27	12.65
7.2	45	759	2590	653	2.52	8.62	301	3.49	16.91

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-35	-31	63	216	54	0.67	2.28	95	2.31	1.50
-30	-22	100	342	86	0.77	2.63	130	2.45	2.39
-20	-4	192	654	165	1.00	3.41	192	2.75	4.58
-10	14	317	1082	273	1.30	4.43	244	3.08	7.65
0	32	490	1673	422	1.68	5.74	291	3.44	11.96
7.2	45	652	2226	561	2.01	6.86	324	3.71	16.08

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Configuration 2

Sales code:

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Configuration

Motor configuration	RSIR
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Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	LST
Approvals	UL
Starting device type	PTC
Run capacitor	-/-
Start capacitor	-/-
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

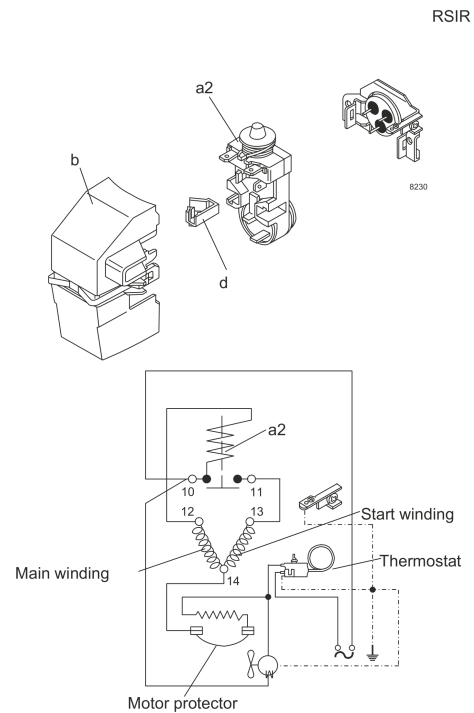
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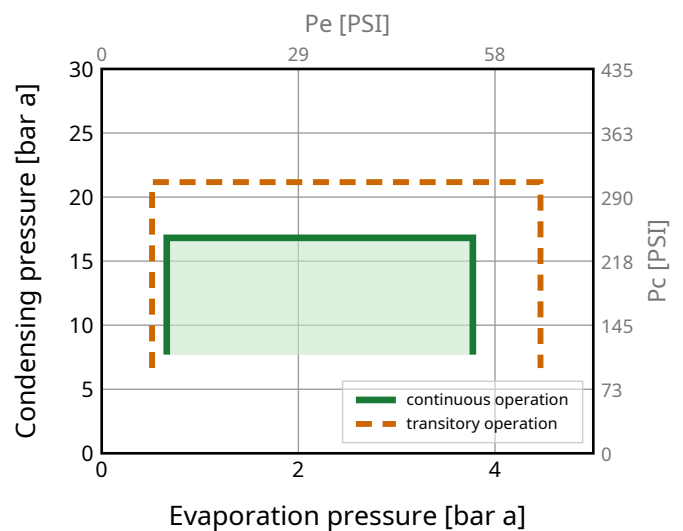
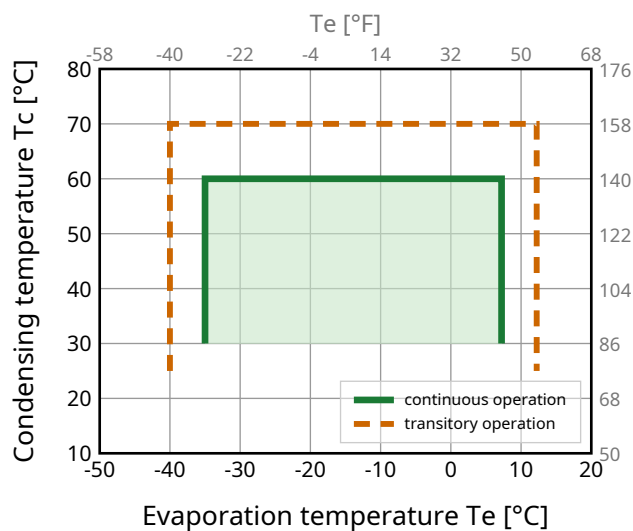
Components

starter kit 117U4131

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Configuration 2

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