

Model

NLX13KK.1

Sales code:

105H6304

Compressor Data

Refrigerant(s)	R600a
Refr. charge - tech. limit	150g / 5.29oz
Weight	10.80 kg / 23.81lbs
Displacement	13.25 cm3 / 0.81cu.in
Compressors on pallet	80



General – Configurations With NLX13KK.1

-	Conf. 1
Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
Starting torque	LST
Refrigerant	R600a
Application	LBP

Application Notes

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

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Compressor Design

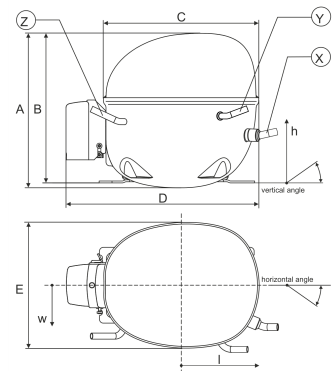
Oil type	Mineral	Winding resistance main	18 Ohm
Oil viscosity	9,6cSt	Winding resistance aux	28 Ohm
Oil quantity	265 / 8.96fl.oz	Max. winding temp.	95 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	125°C / 257°F
Motor protection	internal		

Compressor Dimensions

Housing

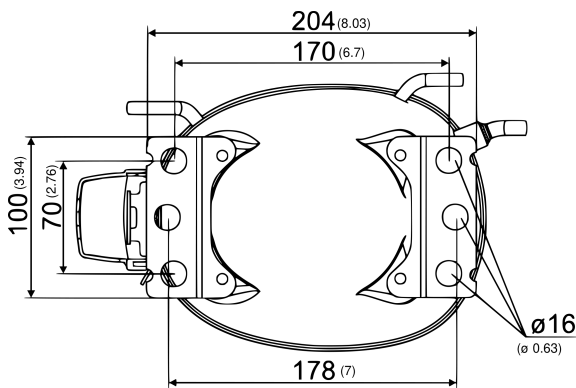
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

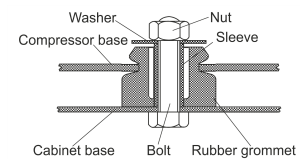


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	133/71/57 / 5.24/2.80/2.24in	91/102.5/81 / 3.58/4.04/3.19in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

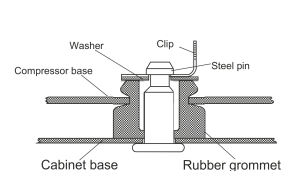
Mounting Accessories



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	-
Snap-on Ø7,3 Ø16mm	118-1947	118-1919

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Configuration 1

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Configuration

Motor configuration	eRSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R600a
Application	LBP
Voltage range	198-254 V
Starting torque	LST
Approvals	VDE
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	4.5 A
RLA (rated load amps / 1s/ U(N))	0.8 A
Cut in current (U(N))	8 A

Ambient/ machine room temperatures minimum /maximum

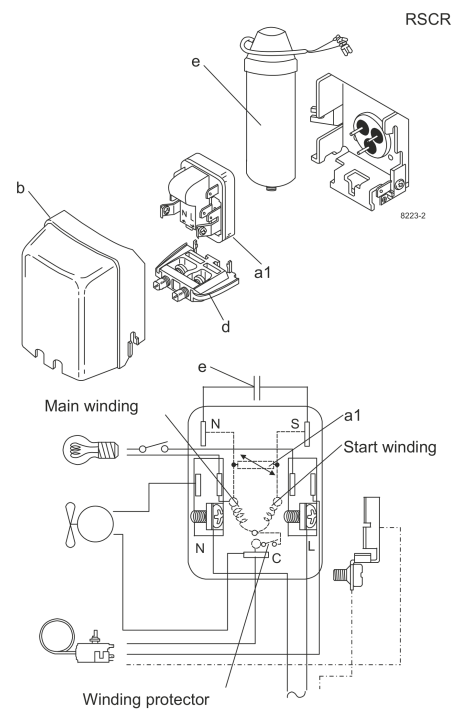
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



Components

a1 e-PTC starter (220V, 250hm, 4.8mm) 103N0050

e run capacitor (4 μ F, 4.8mm) 117-7119

b plastic cover 103N2010

d cord relief 103N1010

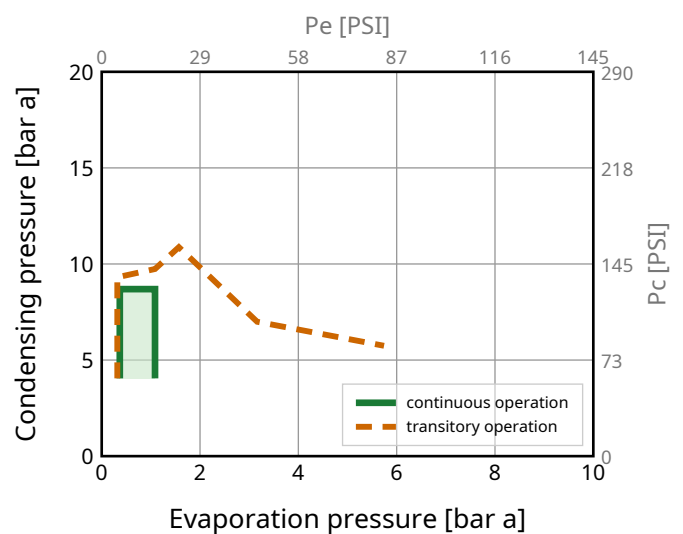
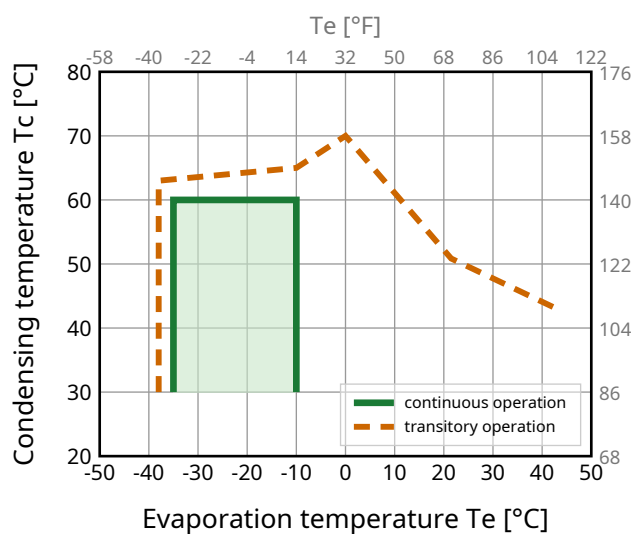
bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Alternative components

b plastic cover 103N2011

Operation Pressure Range



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Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	223	761	192	1.74	5.95	128	0.65	2.40	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	167	570	144	1.37	4.67	122	0.62	2.18	CECOMAF LBP
-35 -31	40 104	20 68	40 104	118	403	101	1.31	4.46	90	0.47	1.44	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	184	626	158	1.47	5.01	125	0.63	2.68	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	244	831	209	2.05	6.99	119	0.61	2.62	AHAM LBP
-35 -31	45 113	32 89.6	45 113	112	381	96	1.24	4.22	90	0.47	1.33	opt LBP

Performance Tables

R600a, 220 V/50 Hz, eRSCR, 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	112	381	96	1.24	4.22	90	0.47	1.33
-30	-22	150	512	129	1.45	4.93	104	0.53	1.79
-25	-13	196	670	169	1.67	5.70	118	0.60	2.34
-20	-4	252	860	217	1.91	6.51	132	0.67	3.00
-15	5	318	1084	273	2.14	7.30	148	0.75	3.80
-10	14	395	1347	340	2.35	8.04	168	0.83	4.73

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

-35	-31	91	310	78	1.05	3.60	86	0.46	1.18
-30	-22	126	428	108	1.20	4.10	104	0.53	1.63
-25	-13	167	570	144	1.37	4.67	122	0.62	2.18
-20	-4	217	740	186	1.55	5.28	140	0.70	2.83
-15	5	276	941	237	1.73	5.90	159	0.80	3.61
-10	14	345	1178	297	1.91	6.51	181	0.89	4.53