Single
Packs

Single Pack NLX13KK.3 220-240V 50Hz RSCR

Single pack code number: **195B4145**

Position	Title	Code	Amount
1	Compressor NLX13KK.3	105H6306	1
2	PTC starting device (220V, 250hm, 4.8mm)	103N0021	1
3	Protection screen for PTC	103N0476	1
4	Run capacitor (4µF 320V, 4.8mm)	117-7119	1
5	Cord relief	103N1010	1
6	Cover	103N2010	1
7	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NLX13KK.3

Sales code:
105H6306

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.3

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

Application Notes

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

Model
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Sales code:
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Compressor Design

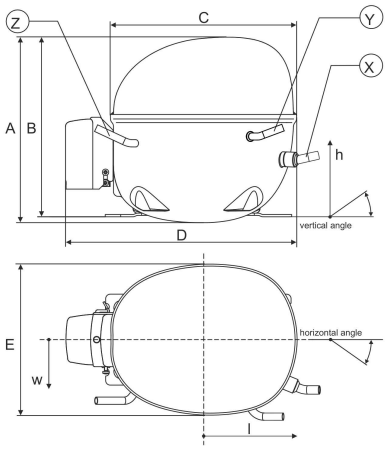
Oil type	**Mineral**	Winding resistance main	**18 Ohm**
Oil viscosity	**5cSt**	Winding resistance aux	**19 Ohm**
Oil quantity	**265 / 8.96fl.oz**	Max. winding temp.	**120 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

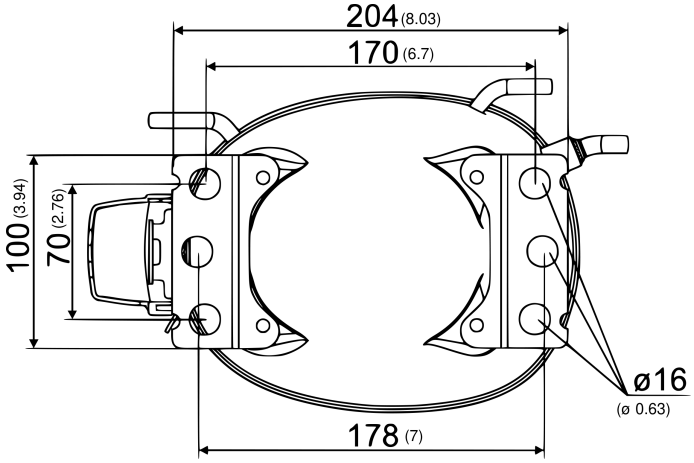
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

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°	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



Dimensions in mm [in]

Model

NLX13KK.3 Configuration 1

Sales code:

105H6306

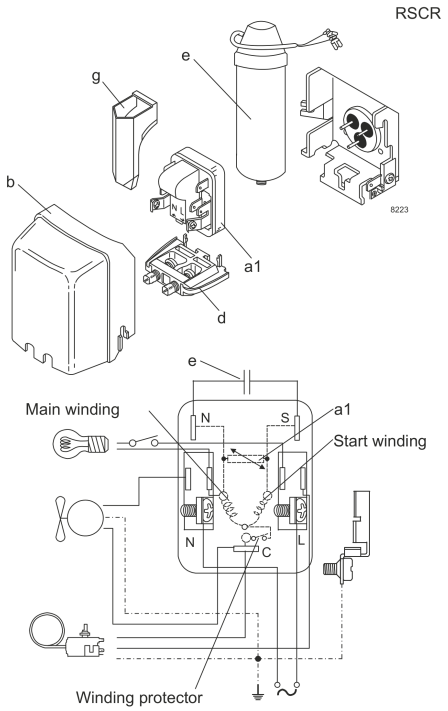
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE, CB**
Starting device type	**PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**5.3 A**
RLA (rated load amps / 1s/ U(N))	**0.9 A**
Cut in current (U(N))	**8.9 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
static

Electrical Accessories / Wiring Diagram

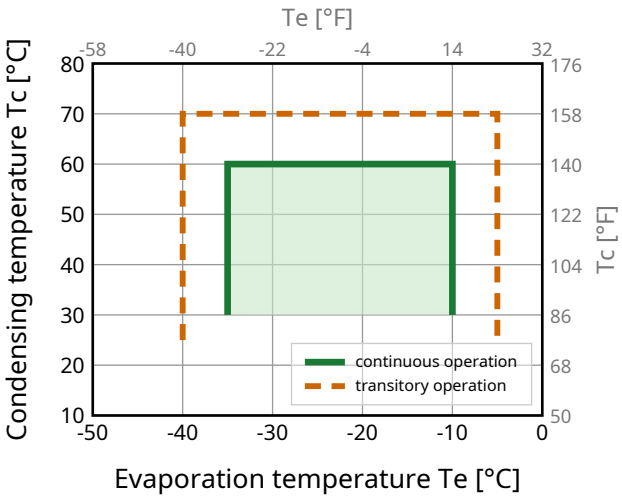


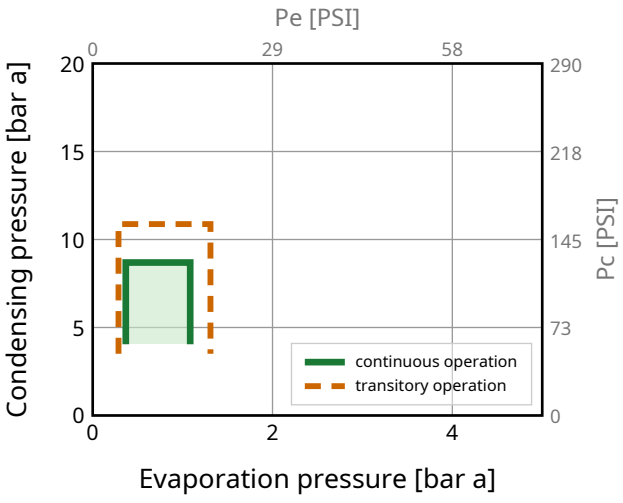
View full size

Components
a1 PTC starter (220V, 25Ohm, 4.8mm) 103N0021
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
g protection screen for PTC 103N0476
bracket for run capacitor 117-0300

Alternative components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2011
screw M4x8mm 117-0301

Operation Pressure Range





Model
NLX13KK.3 Configuration 1

Sales code:
105H6306

Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**225**	767	193	**1.84**	6.28	122	0.57	2.42	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**168**	573	144	**1.45**	4.95	116	0.55	2.19	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**121**	411	104	**1.45**	4.94	83	0.33	1.47	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**187**	638	161	**1.54**	5.26	121	0.53	2.73	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**252**	860	217	**2.13**	7.26	118	0.46	2.71	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**114**	388	98	**1.37**	4.67	83	0.35	1.35	**opt LBP**

Performance Tables

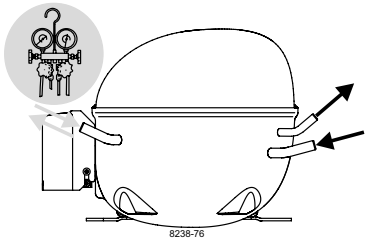
R600a, 220 V/50 Hz, RSCR, static

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

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**114**	388	98	**1.37**	4.67	83	0.35	1.35
-30	-22	**153**	521	131	**1.55**	5.31	98	0.41	1.82
-25	-13	**202**	688	173	**1.76**	5.99	115	0.47	2.40
-20	-4	**261**	891	224	**1.97**	6.72	132	0.55	3.11
-15	5	**331**	1130	285	**2.19**	7.48	151	0.64	3.96
-10	14	**413**	1408	355	**2.42**	8.27	170	0.76	4.94

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

-35	-31	**93**	316	80	**1.12**	3.82	83	0.39	1.21
-30	-22	**126**	429	108	**1.28**	4.36	98	0.47	1.64
-25	-13	**168**	573	144	**1.45**	4.95	116	0.55	2.19
-20	-4	**220**	751	189	**1.63**	5.55	135	0.63	2.87
-15	5	**283**	964	243	**1.81**	6.17	156	0.72	3.70
-10	14	**356**	1215	306	**1.99**	6.78	179	0.84	4.67



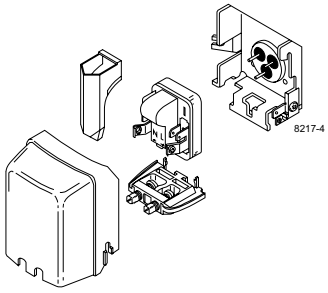
NL Compressors

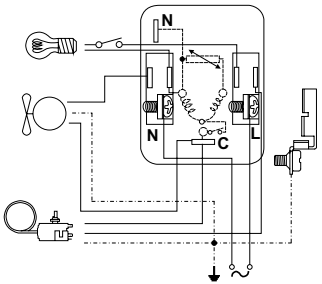
SECOP

Keep electrical equipment clear from oil, chemicals, and water

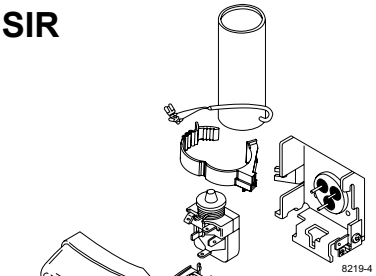
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

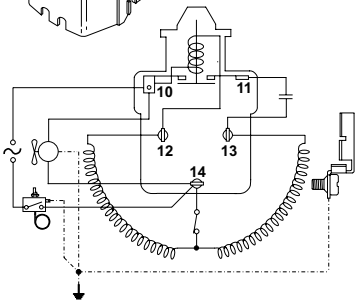
RSIR



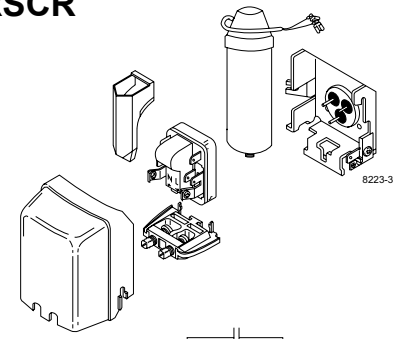


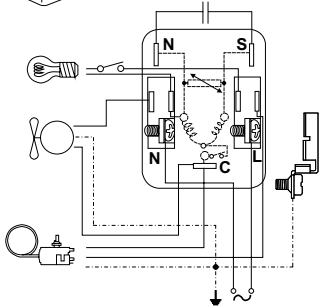
CSIR

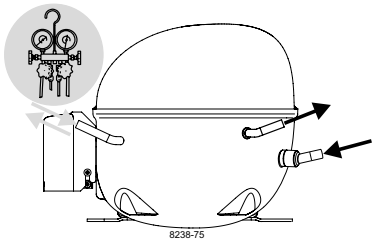




RSCR







NL Compressors

SECOP

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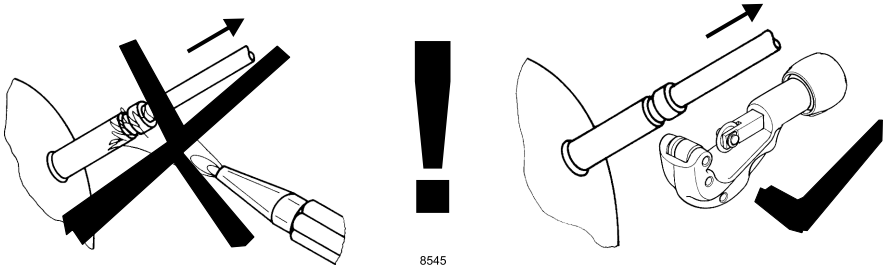
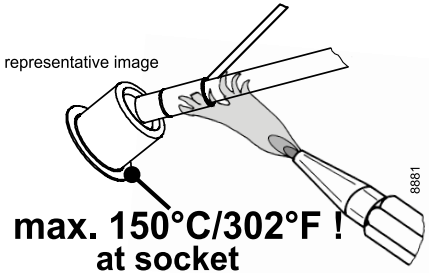
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Brazing on Suction Connectors (Direct Intake)

representative image



! max. 150°C/302°F ! at socket

brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
Brazing on Suction Connectors (Compressors with Direct Suction Intake)

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**