Single
Packs

Single Pack NLX13KK.1 220-240V 50Hz RSCR

Single pack code number: **195B4562**

Position	Title	Code	Amount
1	Compressor NLX13KK.1	105H6304	1
2	e-PTC starting device (220V, 25Ohm, 4.8mm)	103N0050	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.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

Model
NLX13KK.1

Sales code:
105H6304

Compressor Design

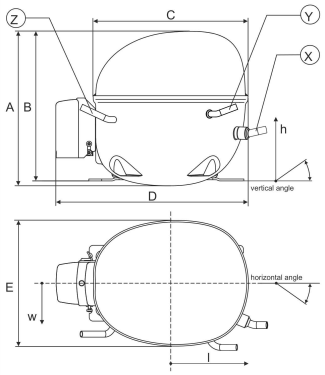
Oil type	**Mineral**	Winding resistance main	**18 Ohm**
Oil viscosity	**9,6cSt**	Winding resistance aux	**28 Ohm**
Oil quantity	**265 / 8.96fl.oz**	Max. winding temp.	**95 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**125°C / 257°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

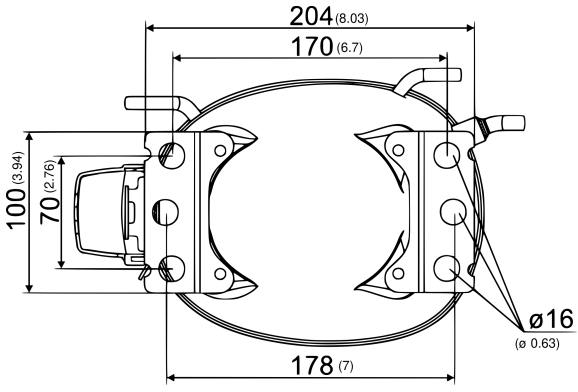
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



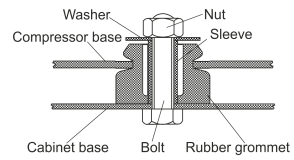
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.11–6.29 / 0.24–0.25in	øi 5.12–5.22 / 0.20–0.21in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	133/71/57 / 5.24/2.80/2.24in	91/102.5/81 / 3.58/4.04/3.19in	-107/93.5/72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

Mounting Accessories

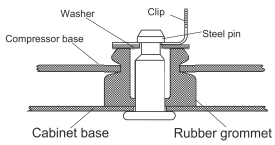


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
NLX13KK.1 Configuration 1

Sales code:
105H6304

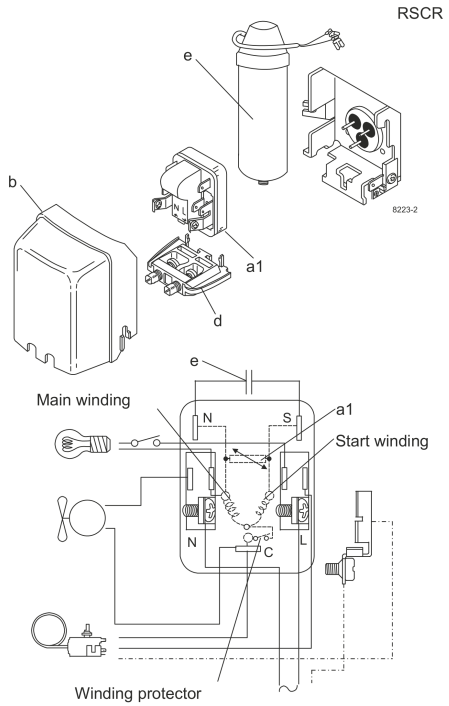
Configuration

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

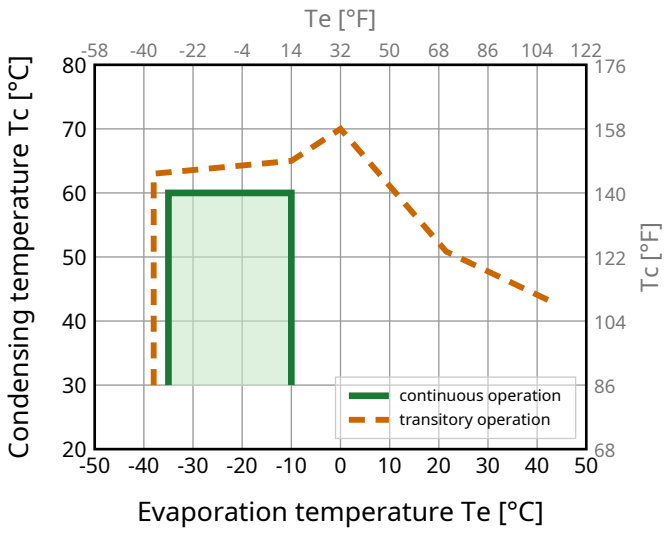
Electrical Accessories / Wiring Diagram

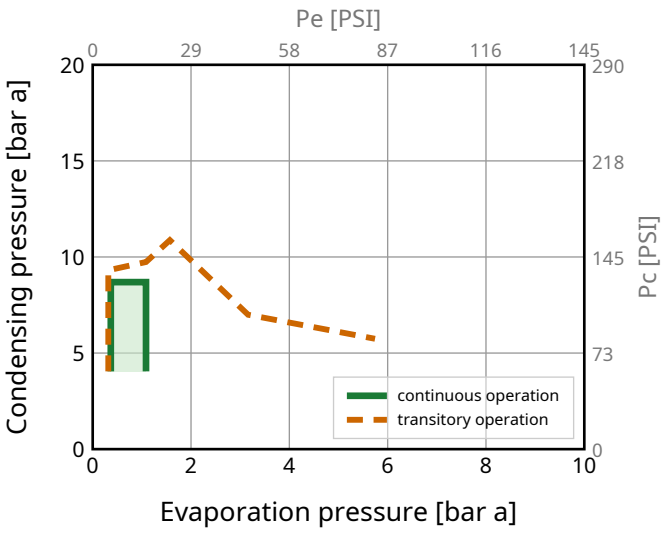


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLX13KK.1 Configuration 1

Sales code:
105H6304

Standard Conditions

R600a, 220 V/50 Hz, eRSCR, 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	**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

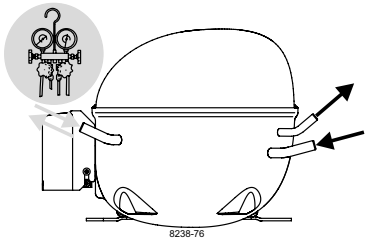
R600a, 220 V/50 Hz, eRSCR, static

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

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



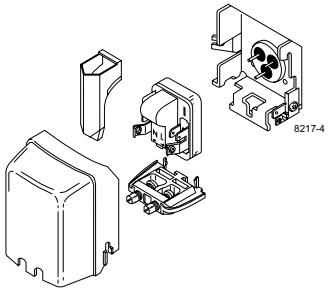
NL Compressors

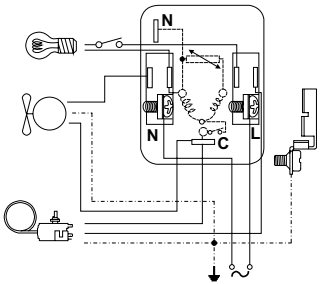
SECOP

Keep electrical equipment clear from oil, chemicals, and water

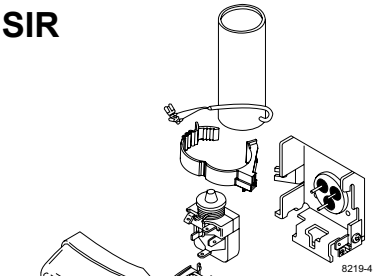
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

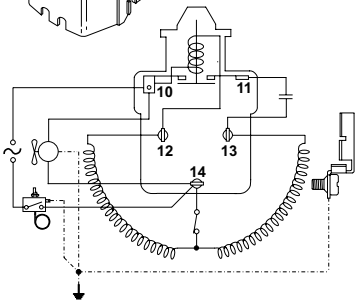
RSIR



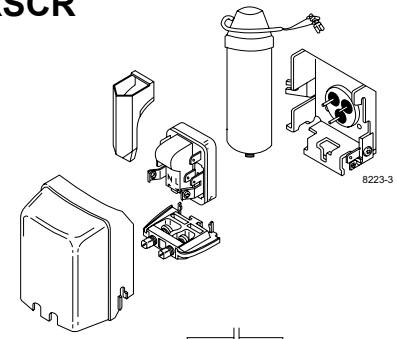


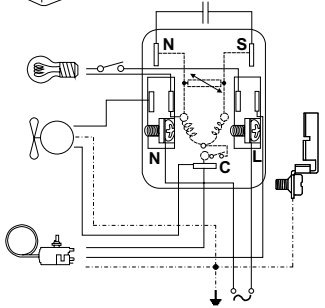
CSIR

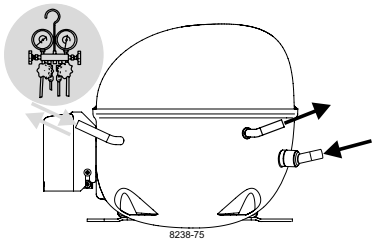




RSCR







NL Compressors

SECOP

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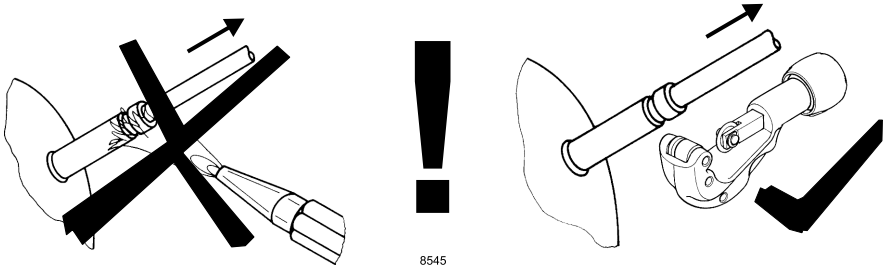
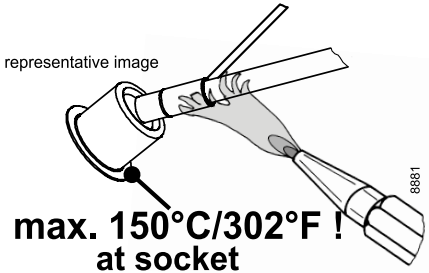
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**