Single
Packs

Single Pack NLE11KTK 115-127V 60Hz RSCR

Single pack code number: **195B4602**

Position	Title	Code	Amount
1	Compressor NLE11KTK	105H5942	1
2	PTC starting device (115V, 5Ohm, 6.3mm)	103N0027	1
3	Run capacitor (15µF 190V, 6.3mm)	117-7118	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Snap-on in quantities | ø7,3 | ø16mm	118-1919	1

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Model
NLE11KTK

Sales code:
105H5942

Compressor Data

Refrigerant(s)	**R600a**
Refr. charge - tech. limit	**150g / 5.29oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**11.15 cm3 / 0.68cu.in**
Compressors on pallet	**80**

General – Configurations With NLE11KTK

–	**Conf. 1**	**Conf. 2**
Motor configuration	RSCR	RSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL	UL
Starting torque	LST	LST
Refrigerant	R600a	R600a
Application	LBP	LBP
Long interval pull down	OK	OK

Application Notes

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

Model
NLE11KTK

Sales code:
105H5942

Compressor Design

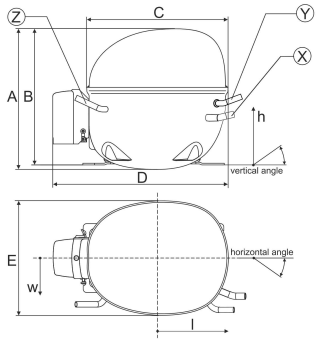
Oil type	**AB**	Winding resistance aux	**3.90 Ohm**
Oil viscosity	**32cSt**	Max. winding temp.	**125 °C**
Oil quantity	**298 / 10.08fl.oz**	Max. discharge temp.	**130°C / 266°F**
Winding resistance main	**1.900 Ohm**		

Compressor Dimensions

Housing

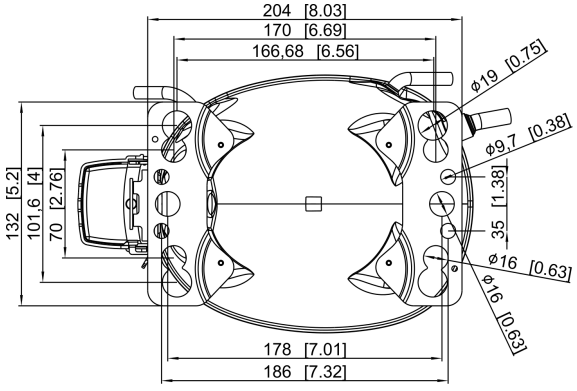
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



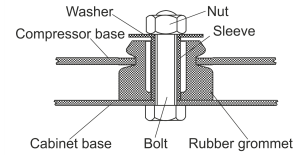
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 6.41–6.59 / 0.25–0.26in	øi 5.12–5.22 / 0.20–0.21in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-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

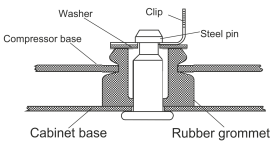


Dimensions in mm [in]

Bolt joint



Snap-on



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

Model
NLE11KTK Configuration 1

Sales code:
105H5942

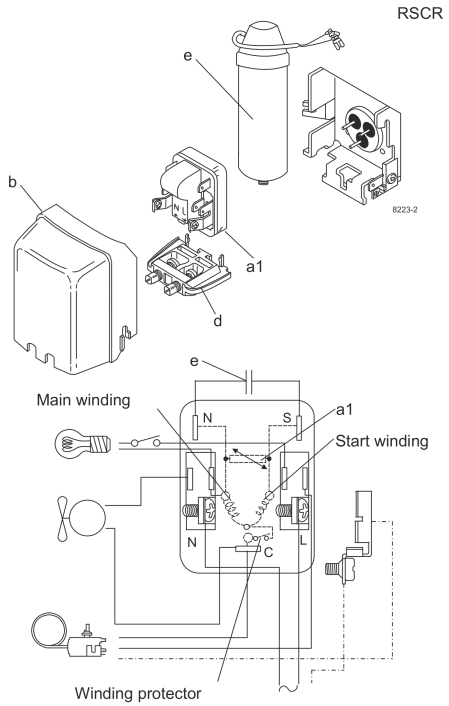
Configuration

Motor configuration	**RSCR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**95-135 V**
Starting torque	**LST**
Approvals	**UL**
Starting device type	**PTC**
Run capacitor	**15 µF**
Start capacitor	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-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

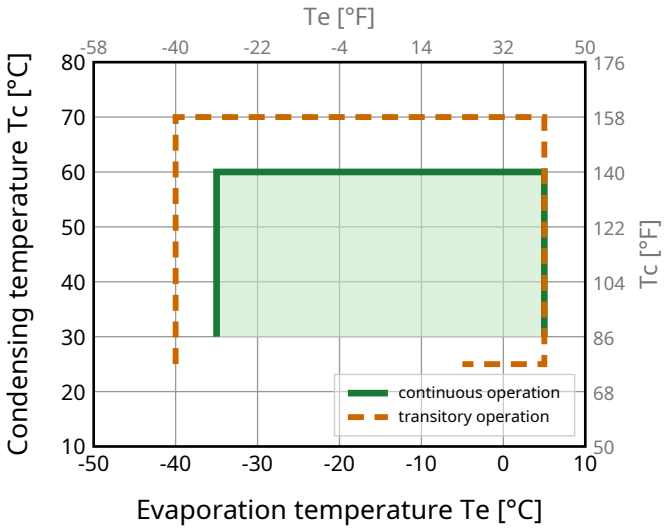
Electrical Accessories / Wiring Diagram

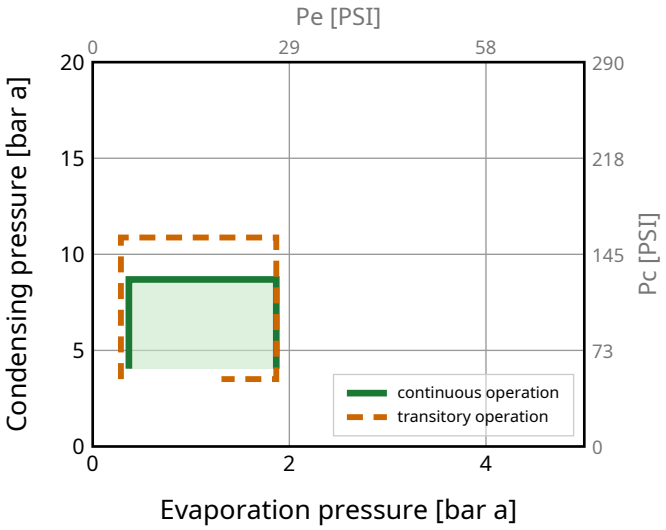


Components
a1 PTC starter (115V, 5Ohm, 4.8mm) 103N0024
e run capacitor (15µF, 4.8mm) 117-7120
b plastic cover 103N2011
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
a1 PTC starter (115V, 5Ohm, 6.3mm) 103N0027
e run capacitor (15µF, 6.3mm) 117-7118

Operation Pressure Range





Model

NLE11KTK Configuration 1

Sales code:

105H5942

Standard Conditions

R600a, 115 V/60 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	**195**	665	168	**1.22**	4.17	159	2.54	2.09	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**144**	493	124	**0.95**	3.26	151	2.50	1.88	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**104**	355	89	**0.90**	3.08	115	2.35	1.26	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**406**	1386	349	**1.67**	5.69	244	3.02	4.83	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**322**	1100	277	**1.42**	4.85	227	2.92	4.23	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**352**	1202	303	**1.59**	5.43	221	2.90	4.53	**EN12900 MBP**

Performance Tables

R600a, 115 V/60 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	**101**	344	87	**0.87**	2.98	116	2.35	1.20
-30	-22	**126**	430	108	**0.96**	3.29	131	2.41	1.50
-20	-4	**224**	764	193	**1.30**	4.43	172	2.62	2.67
-10	14	**367**	1251	315	**1.66**	5.65	221	2.90	4.39
0	32	**533**	1817	458	**1.98**	6.74	270	3.21	6.41
5	41	**618**	2108	531	**2.12**	7.25	291	3.36	7.47

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

-35	-31	**87**	295	74	**0.77**	2.63	112	2.35	1.13
-30	-22	**108**	367	93	**0.83**	2.83	130	2.41	1.40
-20	-4	**194**	663	167	**1.11**	3.78	175	2.62	2.54
-10	14	**322**	1100	277	**1.42**	4.85	227	2.92	4.23
0	32	**470**	1604	404	**1.70**	5.80	276	3.23	6.20
5	41	**544**	1858	468	**1.83**	6.24	298	3.38	7.21

Model

NLE11KTK Configuration 2

Sales code:

105H5942

Configuration

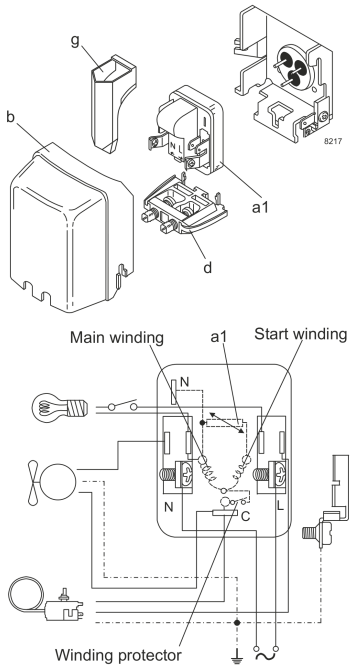
Motor configuration	**RSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R600a**
Application	**LBP**
Voltage range	**95-135 V**
Starting torque	**LST**
Approvals	**UL**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-A**

Ambient/ machine room temperatures minimum /maximum
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

RSIR

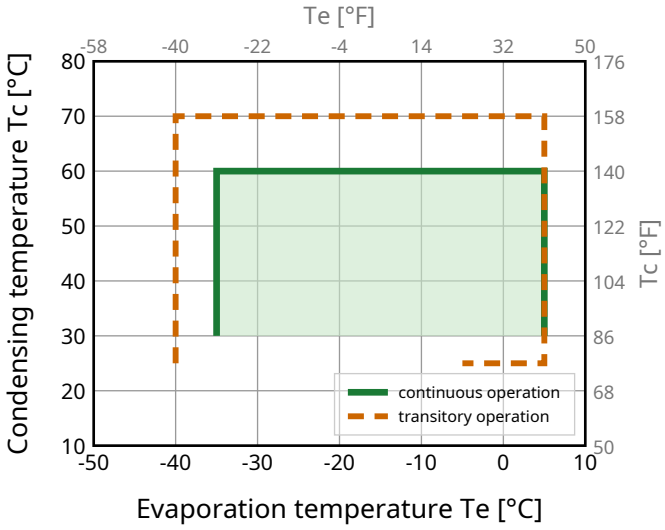


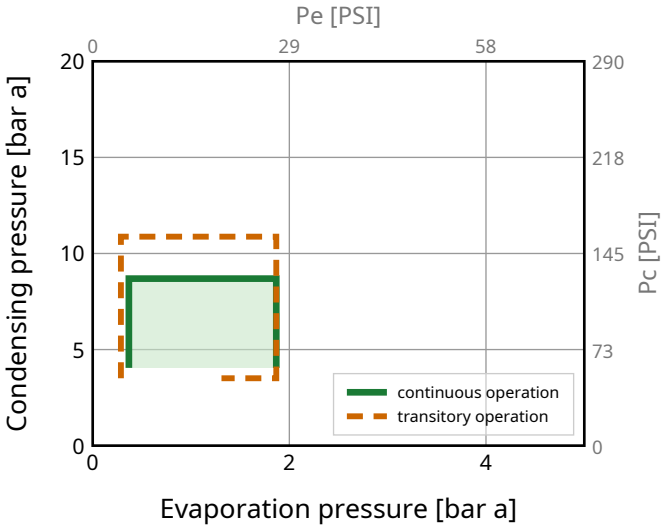
View full size

Components

a1 PTC starter (115V, 5Ohm, 4.8mm) 103N0023
b plastic cover 103N2011
d cord relief 103N1010
g protection screen for PTC 103N0476

Operation Pressure Range





Model
NLE11KTK Configuration 2

Sales code:
105H5942

Standard Conditions

R600a, 115 V/60 Hz, RSIR, 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]	
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-10 14	45 113	20 68	45 113	**352**	1202	303	**1.59**	5.43	221	2.90	4.53	**EN12900 MBP**

Performance Tables

R600a, 115 V/60 Hz, RSIR, 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]
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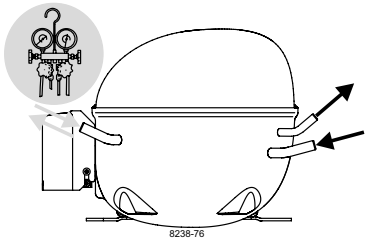


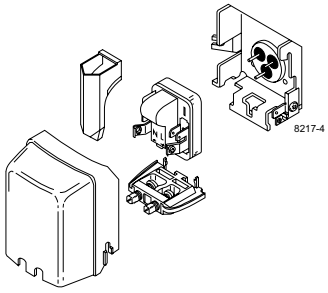
NL Compressors

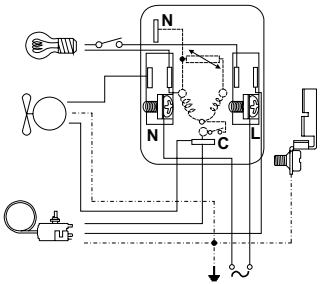
SECOP

Keep electrical equipment clear from oil, chemicals, and water

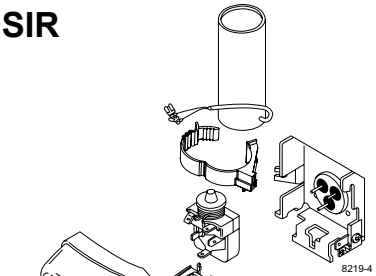
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

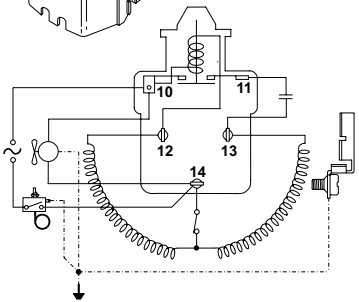
RSIR



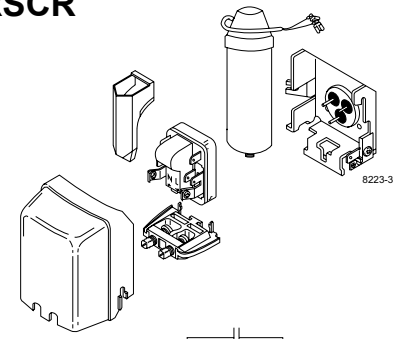


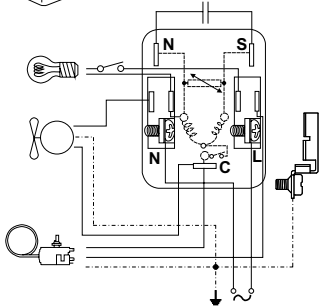
CSIR

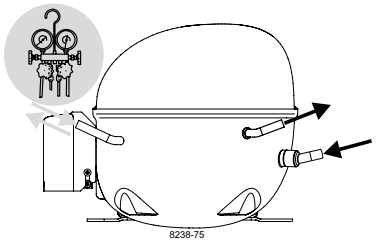




RSCR







NL Compressors

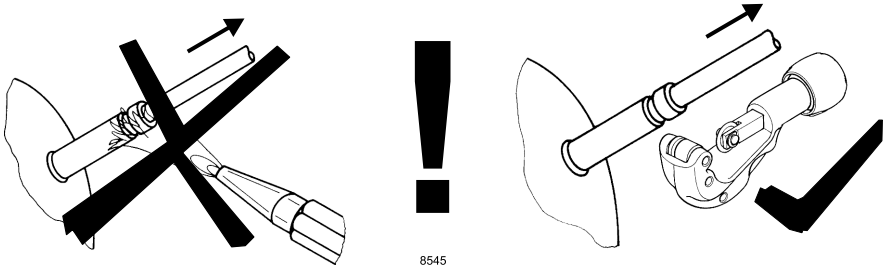
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

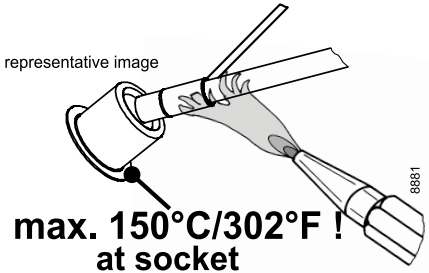
Service/Repair – R290, R600a, R170, R1270, R1234yf

(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**