

Model
NLE11MN

Sales code:
105H5980

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.14 kg / 26.76lbs
Displacement	11.15 cm³ / 0.68cu.in
Compressors on pallet	80



General - Configurations With NLE11MN

-	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	eRSCR	eRSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1	1	1
Voltage range	95-127 V	95-135 V	95-127 V	95-135 V
Approvals	UL, CCC	UL, CCC	UL, CCC	UL, CCC
Starting torque	HST	HST	LST	LST
Refrigerant	R290	R290	R290	R290
Application	MBP	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Application Notes

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

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Compressor Design

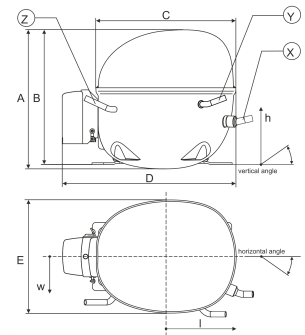
Oil type	32 cSt POE RL32DR	Winding resistance main	0.900 Ohm
Oil viscosity	32cSt	Winding resistance aux	4.17 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

A Height	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](#)



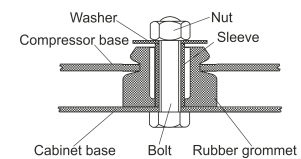
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-109.3/94.3/72 / -4.30/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

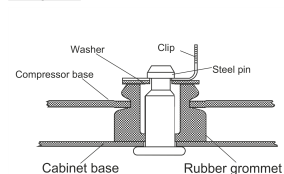


Dimensions in mm [in]

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
NLE11MN

Configuration 1

Sales code:
105H5980

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-127 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

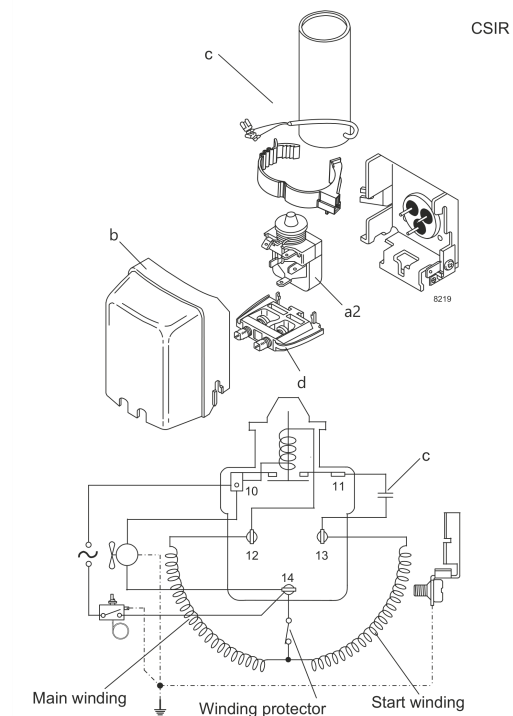
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay 117U7020

c start capacitor (240µF, 6,3mm) 117U5073

b plastic cover 103N2011

d cord relief 103N1010

Alternative components

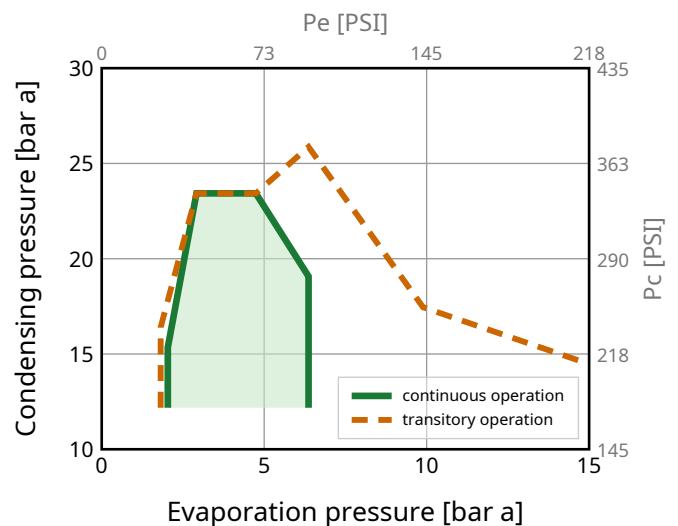
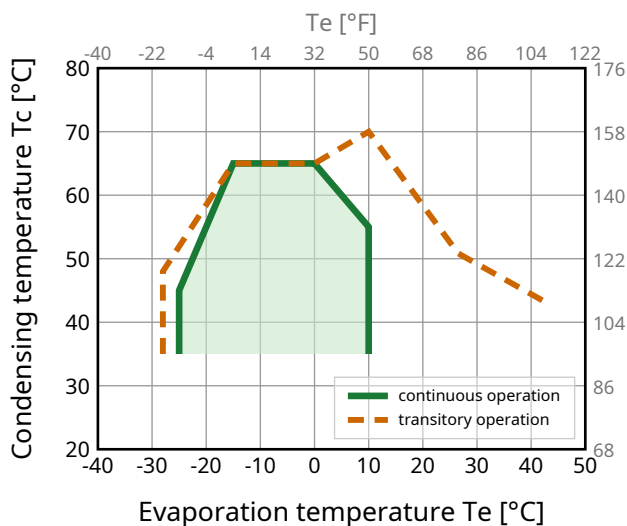
a2 relay 117U7020

c start capacitor (240µF, 15kOhm) 117U5034

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE11MN

Configuration 1

Sales code:
105H5980

Standard Conditions

R290, 115 V/60 Hz, CSIR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1202	4103	1034	2.04	6.97	589	7.15	13.77	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	960	3274	825	1.71	5.83	562	6.96	12.21	CECOMAF MBP
-10 14	45 113	20 68	45 113	1060	3616	911	2.04	6.97	519	6.77	13.04	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1126	3843	969	2.01	6.84	561	7.01	14.64	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1102	3759	948	2.12	7.24	519	6.77	12.65	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	718	2450	618	1.70	5.79	423	6.17	7.29	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSIR, fan 3m/s

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]
-25	-13	594	2027	511	1.45	4.93	411	6.09	6.73
-20	-4	744	2538	640	1.66	5.67	447	6.31	8.46
-15	5	912	3112	784	1.89	6.44	484	6.54	10.42
-10	14	1102	3759	948	2.12	7.24	519	6.77	12.65
-5	23	1316	4491	1132	2.38	8.12	553	6.99	15.20
0	32	1559	5318	1340	2.67	9.10	584	7.21	18.12
5	41	1832	6250	1575	2.99	10.20	613	7.40	21.47
10	50	2139	7299	1840	3.36	11.45	637	7.58	25.30

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

-25	-13	498	1700	428	1.18	4.02	422	6.09	6.25
-20	-4	636	2171	547	1.36	4.63	469	6.37	8.01
-15	5	789	2692	679	1.53	5.22	516	6.66	9.98
-10	14	960	3274	825	1.71	5.83	562	6.96	12.21
-5	23	1151	3929	990	1.90	6.48	606	7.27	14.74
0	32	1367	4665	1176	2.11	7.20	648	7.57	17.63
5	41	1610	5495	1385	2.34	8.00	687	7.86	20.95
10	50	1884	6429	1620	2.61	8.90	722	8.13	24.76

Model
NLE11MN

Configuration 2

Sales code:
105H5980

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

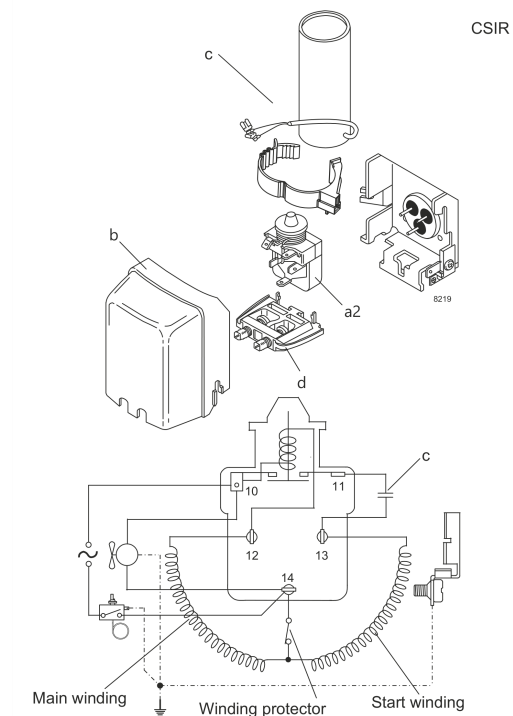
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay 117U7020

c start capacitor (240µF, 6,3mm) 117U5073

b plastic cover 103N2011

d cord relief 103N1010

Alternative components

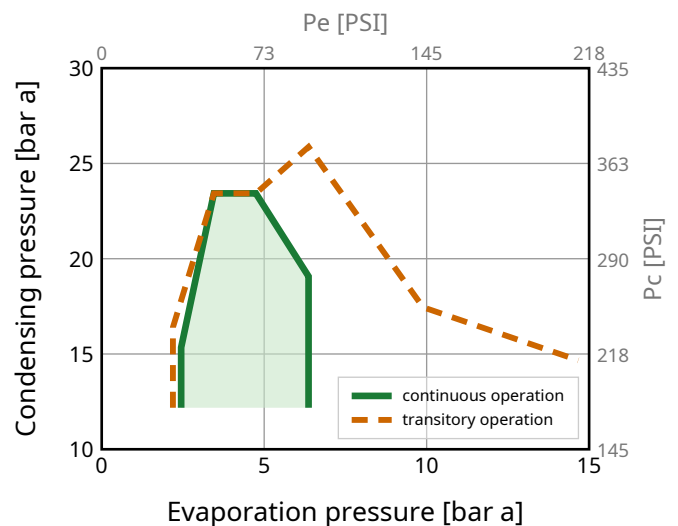
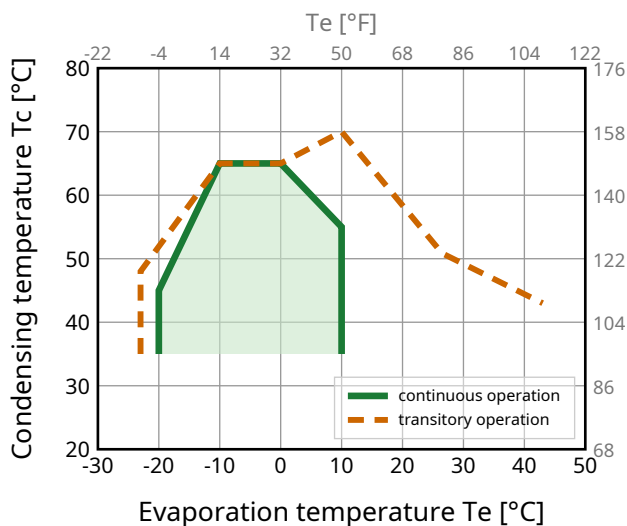
a2 relay 117U7020

c start capacitor (240µF, 15kOhm) 117U5034

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE11MN

Configuration 2

Sales code:
105H5980

Standard Conditions

R290, 115 V/60 Hz, CSIR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1202	4103	1034	2.04	6.97	589	7.15	13.77	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	960	3274	825	1.71	5.83	562	6.96	12.21	CECOMAF MBP
-10 14	45 113	20 68	45 113	1060	3616	911	2.04	6.97	519	6.77	13.04	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1126	3843	969	2.01	6.84	561	7.01	14.64	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1102	3759	948	2.12	7.24	519	6.77	12.65	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	718	2450	618	1.70	5.79	423	6.17	7.29	opt LBP

Performance Tables

R290, 115 V/60 Hz, CSIR, fan 3m/s

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]
-20	-4	744	2538	640	1.66	5.67	447	6.31	8.46
-15	5	912	3112	784	1.89	6.44	484	6.54	10.42
-10	14	1102	3759	948	2.12	7.24	519	6.77	12.65
-5	23	1316	4491	1132	2.38	8.12	553	6.99	15.20
0	32	1559	5318	1340	2.67	9.10	584	7.21	18.12
5	41	1832	6250	1575	2.99	10.20	613	7.40	21.47
10	50	2139	7299	1840	3.36	11.45	637	7.58	25.30

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

-20	-4	636	2171	547	1.36	4.63	469	6.37	8.01
-15	5	789	2692	679	1.53	5.22	516	6.66	9.98
-10	14	960	3274	825	1.71	5.83	562	6.96	12.21
-5	23	1151	3929	990	1.90	6.48	606	7.27	14.74
0	32	1367	4665	1176	2.11	7.20	648	7.57	17.63
5	41	1610	5495	1385	2.34	8.00	687	7.86	20.95
10	50	1884	6429	1620	2.61	8.90	722	8.13	24.76

Model
NLE11MN

Configuration 3

Sales code:
105H5980

Configuration

Motor configuration	eRSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-127 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	e-PTC
Run capacitor	23.5 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

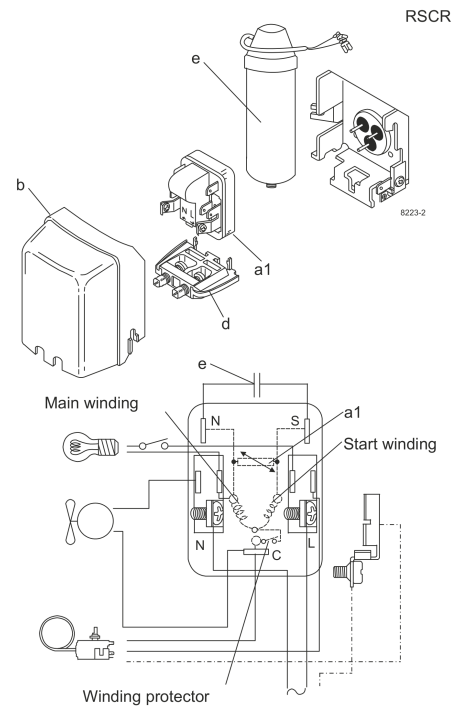
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

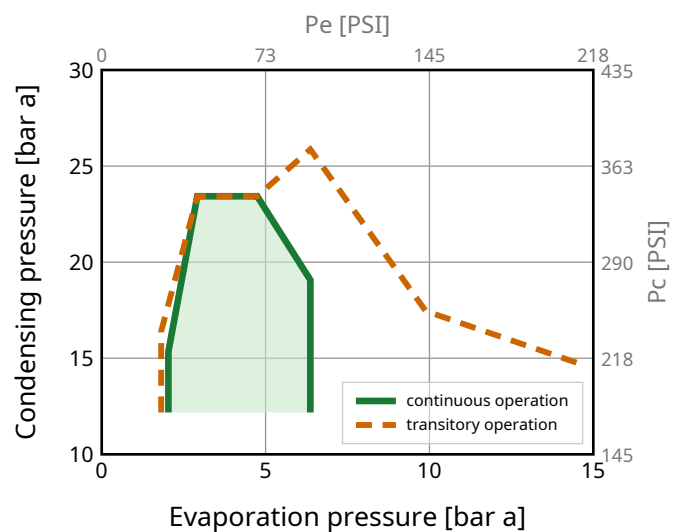
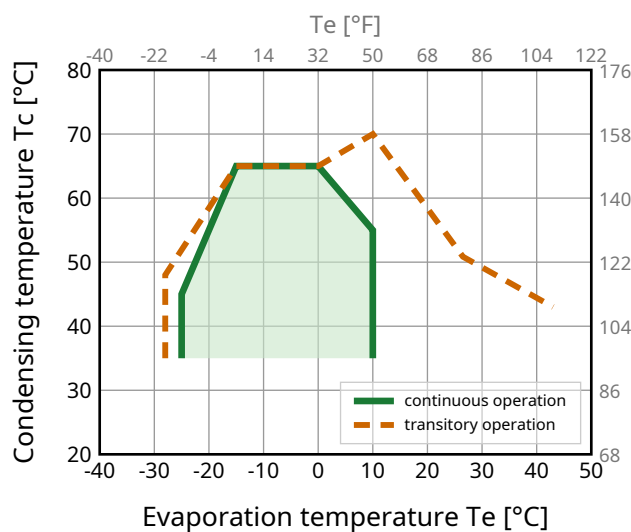
Electrical Accessories / Wiring Diagram



Components

- a1** e-PTC starter 103N0058
- e** run capacitor (23,5 μ F, 6.3mm) 117-7114
- b** plastic cover 103N2011
- d** cord relief 103N1010
- bracket for run capacitor 117-0300
- screw M4x8mm 117-0301

Operation Pressure Range



Model

NLE11MN

Configuration 3

Sales code:

105H5980

Standard Conditions

R290, 115 V/60 Hz, eRSCR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1221	4167	1050	2.20	7.51	555	6.74	13.98	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	975	3327	839	1.84	6.28	530	6.57	12.40	CECOMAF MBP
-10 14	45 113	20 68	45 113	1069	3647	919	2.18	7.45	490	6.38	13.15	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1140	3890	980	2.15	7.35	529	6.61	14.82	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1111	3791	956	2.27	7.75	490	6.38	12.76	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	724	2469	622	1.81	6.19	399	5.82	7.35	opt LBP

Performance Tables

R290, 115 V/60 Hz, eRSCR, fan 3m/s

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]
-25	-13	598	2042	515	1.54	5.27	387	5.75	6.78
-20	-4	750	2559	645	1.78	6.07	422	5.95	8.53
-15	5	920	3138	791	2.02	6.88	456	6.17	10.51
-10	14	1111	3791	956	2.27	7.75	490	6.38	12.76
-5	23	1328	4529	1142	2.55	8.69	521	6.59	15.33
0	32	1572	5364	1352	2.85	9.73	551	6.79	18.28
5	41	1848	6306	1589	3.20	10.91	578	6.98	21.66
10	50	2159	7366	1857	3.59	12.26	601	7.14	25.53

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

-25	-13	508	1734	437	1.27	4.35	398	5.75	6.37
-20	-4	648	2211	557	1.46	5.00	442	6.01	8.16
-15	5	802	2738	690	1.65	5.63	486	6.28	10.15
-10	14	975	3327	839	1.84	6.28	530	6.57	12.40
-5	23	1169	3989	1005	2.04	6.98	572	6.85	14.96
0	32	1387	4733	1193	2.27	7.75	611	7.13	17.89
5	41	1634	5574	1405	2.52	8.60	648	7.41	21.25
10	50	1911	6519	1643	2.81	9.57	681	7.67	25.11

Model
NLE11MN

Configuration 4

Sales code:
105H5980

Configuration

Motor configuration	eRSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	95-135 V
Starting torque	LST
Approvals	UL, CCC
Starting device type	e-PTC
Run capacitor	23.5 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	40.23 A
RLA (rated load amps / 1s/ U(N))	8.37 A
Cut in current (U(N))	40.23 A

Ambient/ machine room temperatures minimum /maximum

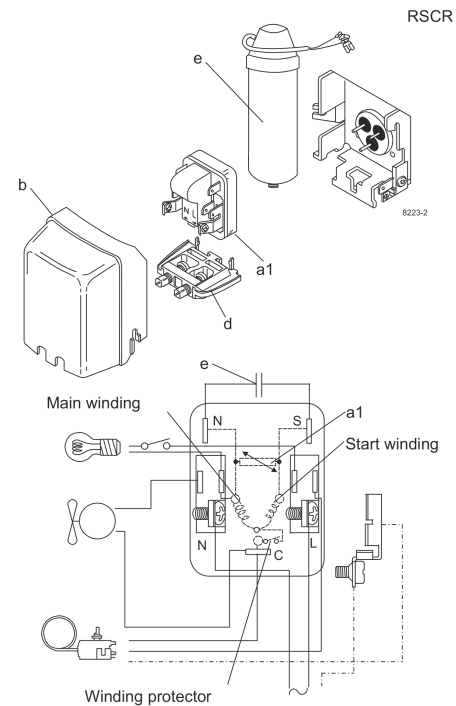
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

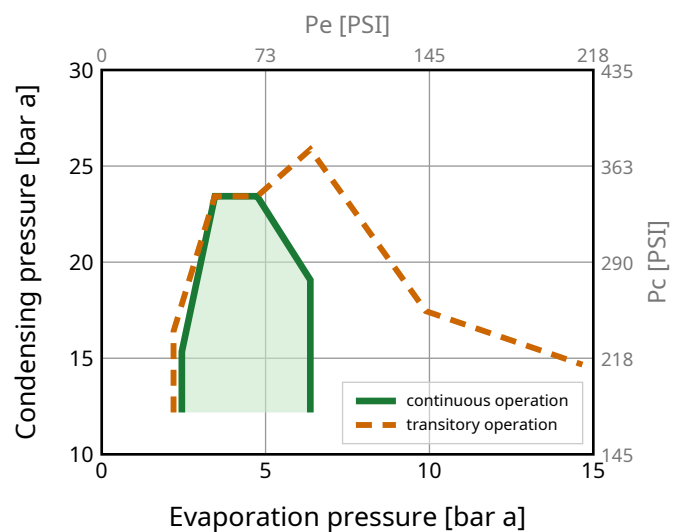
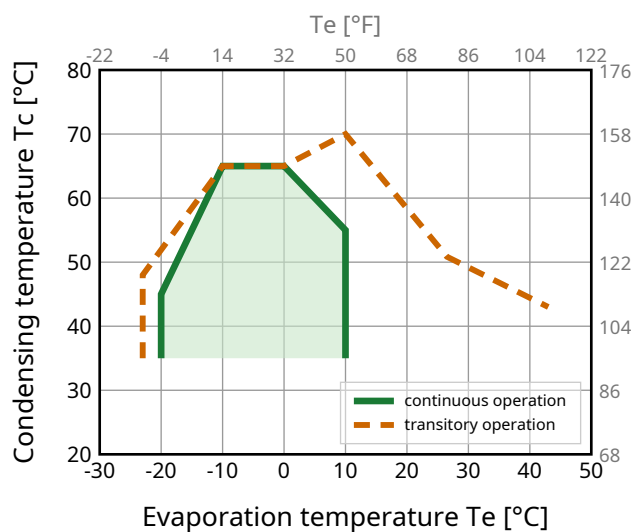
Electrical Accessories / Wiring Diagram



Components

- a1** e-PTC starter 103N0058
- e** run capacitor (23,5 μ F, 6.3mm) 117-7114
- b** plastic cover 103N2011
- d** cord relief 103N1010
- bracket for run capacitor 117-0300
- screw M4x8mm 117-0301

Operation Pressure Range



Model

NLE11MN

Configuration 4

Sales code:

105H5980

Standard Conditions

R290, 115 V/60 Hz, eRSCR, fan 3m/s

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1221	4167	1050	2.20	7.51	555	6.74	13.98	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	975	3327	839	1.84	6.28	530	6.57	12.40	CECOMAF MBP
-10 14	45 113	20 68	45 113	1069	3647	919	2.18	7.45	490	6.38	13.15	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1140	3890	980	2.15	7.35	529	6.61	14.82	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1111	3791	956	2.27	7.75	490	6.38	12.76	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	724	2469	622	1.81	6.19	399	5.82	7.35	opt LBP

Performance Tables

R290, 115 V/60 Hz, eRSCR, fan 3m/s

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]
-20	-4	750	2559	645	1.78	6.07	422	5.95	8.53
-15	5	920	3138	791	2.02	6.88	456	6.17	10.51
-10	14	1111	3791	956	2.27	7.75	490	6.38	12.76
-5	23	1328	4529	1142	2.55	8.69	521	6.59	15.33
0	32	1572	5364	1352	2.85	9.73	551	6.79	18.28
5	41	1848	6306	1589	3.20	10.91	578	6.98	21.66
10	50	2159	7366	1857	3.59	12.26	601	7.14	25.53

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

-20	-4	648	2211	557	1.46	5.00	442	6.01	8.16
-15	5	802	2738	690	1.65	5.63	486	6.28	10.15
-10	14	975	3327	839	1.84	6.28	530	6.57	12.40
-5	23	1169	3989	1005	2.04	6.98	572	6.85	14.96
0	32	1387	4733	1193	2.27	7.75	611	7.13	17.89
5	41	1634	5574	1405	2.52	8.60	648	7.41	21.25
10	50	1911	6519	1643	2.81	9.57	681	7.67	25.11