

Model
NLE11MNT

Sales code:
105H6199

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	400g / 14.11oz
Weight	12.20 kg / 26.90lbs
Displacement	11.15 cm³ / 0.68cu.in
Compressors on pallet	80



General - Configurations With NLE11MNT

-	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motor configuration	CSIR	CSIR	eRSCR	eRSIR	eRSIR
Power supply (nominal)	208-230 V/60 Hz	208-230 V/60 Hz	208-230 V/60 Hz	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1	1	1	1
Voltage range	187-253 V	187-242 V	187-253 V	187-253 V	187-242 V
Approvals	UL, CB	UL, CB	UL, CB	UL, CB	UL, CB
Starting torque	HST	HST	LST	LST	LST
Refrigerant	R290	R290	R290	R290	R290
Application	MBP	MBP	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	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

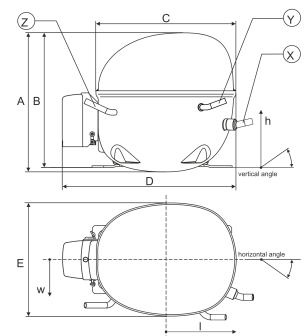
Oil type	POE	Winding resistance main	4.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.20 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

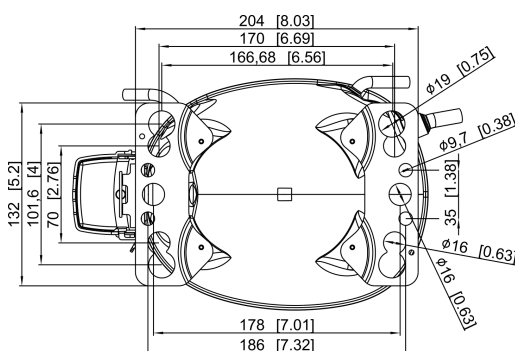
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)



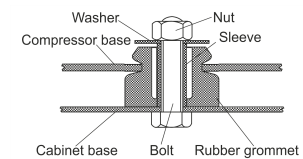
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in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

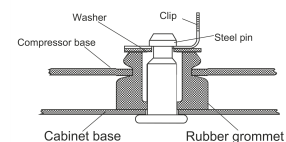


Dimensions in mm [in]

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

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Configuration 1

Sales code:

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Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	18.17 A
RLA (rated load amps / 1s/ U(N))	3.4 A
Cut in current (U(N))	18.17 A

Ambient/ machine room temperatures minimum /maximum

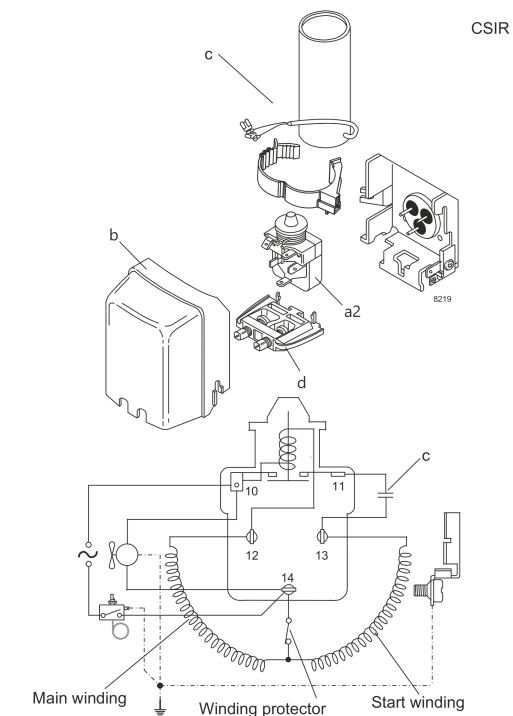
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

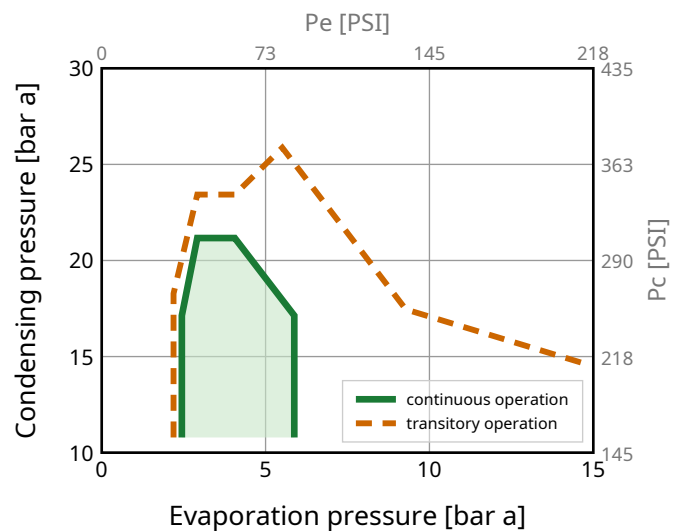
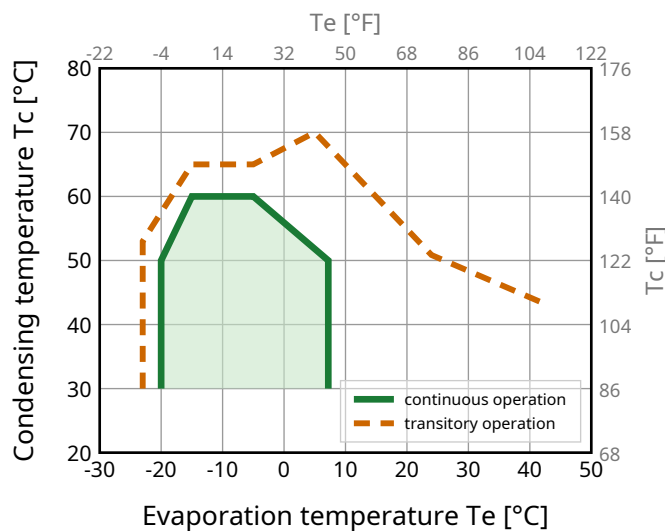
a2 current relay 117U7050

c start capacitor (60µF) 117U5014

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE11MNT

Configuration 1

Sales code:
105H6199

Standard Conditions

R290, 230 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	1177	4017	1013	2.02	6.89	583	3.29	13.48	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	942	3215	810	1.70	5.79	556	3.19	11.98	CECOMAF MBP
-10 14	45 113	20 68	45 113	1040	3547	894	2.03	6.93	512	3.03	12.79	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1104	3767	950	1.98	6.77	556	3.19	14.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1081	3688	929	2.11	7.21	512	3.03	12.41	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	708	2417	609	1.77	6.04	400	2.63	7.20	opt LBP

Performance Tables

R290, 230 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	732	2496	629	1.70	5.81	429	2.73	8.32
-15	5	895	3054	770	1.90	6.47	472	2.88	10.23
-10	14	1081	3688	929	2.11	7.21	512	3.03	12.41
-5	23	1291	4405	1110	2.36	8.05	548	3.16	14.91
0	32	1528	5213	1314	2.64	9.02	578	3.27	17.77
5	41	1794	6121	1543	2.98	10.18	601	3.35	21.02
7.2	45	1921	6555	1652	3.16	10.77	609	3.38	22.60

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

-20	-4	638	2175	548	1.40	4.76	457	2.83	8.03
-15	5	780	2663	671	1.54	5.25	507	3.01	9.87
-10	14	942	3215	810	1.70	5.79	556	3.19	11.98
-5	23	1126	3841	968	1.87	6.39	601	3.35	14.41
0	32	1333	4548	1146	2.08	7.09	641	3.49	17.19
5	41	1566	5344	1347	2.32	7.91	675	3.62	20.37
7.2	45	1678	5724	1443	2.44	8.32	688	3.66	21.92

Model

NLE11MNT

Configuration 2

Sales code:

105H6199

Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-242 V
Starting torque	HST
Approvals	UL, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	18.17 A
RLA (rated load amps / 1s/ U(N))	3.4 A
Cut in current (U(N))	18.17 A

Ambient/ machine room temperatures minimum /maximum

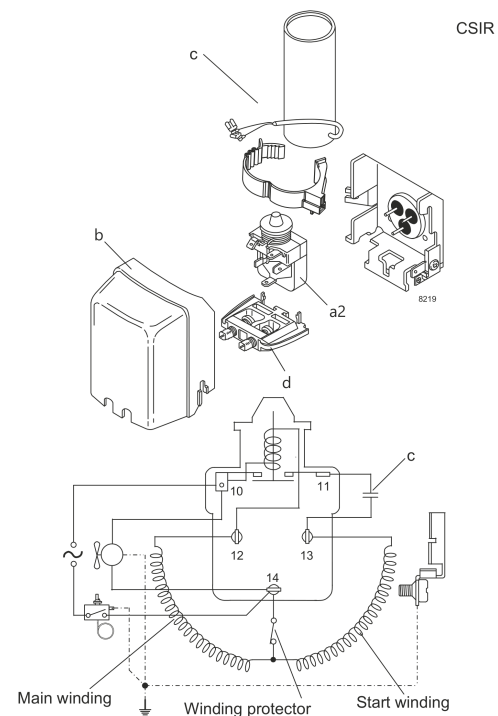
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

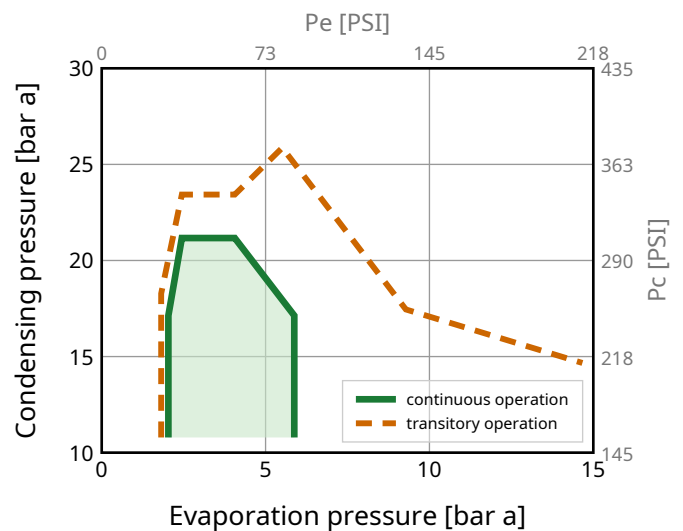
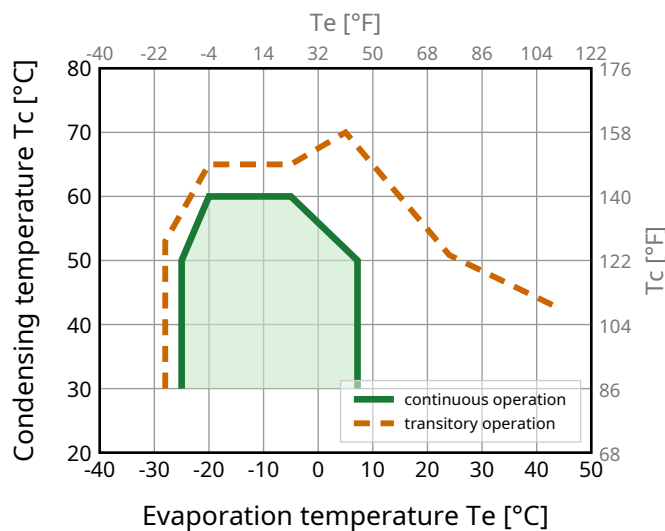
a2 current relay 117U7050

c start capacitor (60µF) 117U5014

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

NLE11MNT

Configuration 2

Sales code:

105H6199

Standard Conditions

R290, 230 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	1177	4017	1013	2.02	6.89	583	3.29	13.48	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	942	3215	810	1.70	5.79	556	3.19	11.98	CECOMAF MBP
-10 14	45 113	20 68	45 113	1040	3547	894	2.03	6.93	512	3.03	12.79	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1104	3767	950	1.98	6.77	556	3.19	14.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1081	3688	929	2.11	7.21	512	3.03	12.41	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	708	2417	609	1.77	6.04	400	2.63	7.20	opt LBP

Performance Tables

R290, 230 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	588	2005	505	1.52	5.20	385	2.57	6.66
-20	-4	732	2496	629	1.70	5.81	429	2.73	8.32
-15	5	895	3054	770	1.90	6.47	472	2.88	10.23
-10	14	1081	3688	929	2.11	7.21	512	3.03	12.41
-5	23	1291	4405	1110	2.36	8.05	548	3.16	14.91
0	32	1528	5213	1314	2.64	9.02	578	3.27	17.77
5	41	1794	6121	1543	2.98	10.18	601	3.35	21.02
7.2	45	1921	6555	1652	3.16	10.77	609	3.38	22.60

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

-25	-13	511	1745	440	1.26	4.29	407	2.65	6.41
-20	-4	638	2175	548	1.40	4.76	457	2.83	8.03
-15	5	780	2663	671	1.54	5.25	507	3.01	9.87
-10	14	942	3215	810	1.70	5.79	556	3.19	11.98
-5	23	1126	3841	968	1.87	6.39	601	3.35	14.41
0	32	1333	4548	1146	2.08	7.09	641	3.49	17.19
5	41	1566	5344	1347	2.32	7.91	675	3.62	20.37
7.2	45	1678	5724	1443	2.44	8.32	688	3.66	21.92

Model

NLE11MNT

Configuration 3

Sales code:

105H6199

Configuration

Motor configuration	eRSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	LST
Approvals	UL, CB
Starting device type	e-PTC
Run capacitor	4 μF
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	18.17 A
RLA (rated load amps / 1s/ U(N))	3.4 A
Cut in current (U(N))	18.17 A

Ambient/ machine room temperatures minimum /maximum

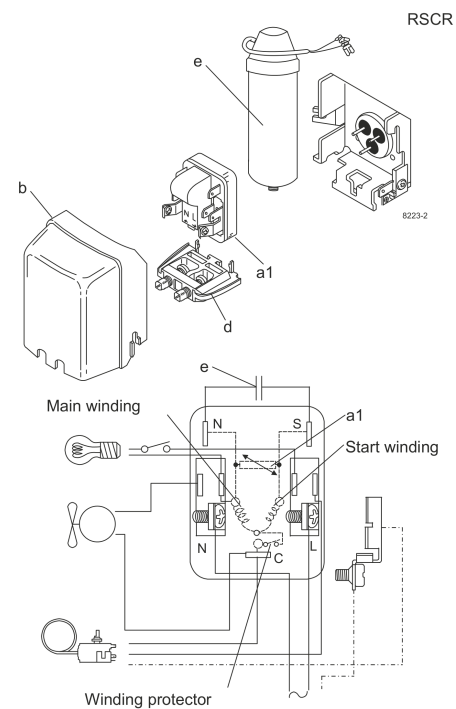
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components

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

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

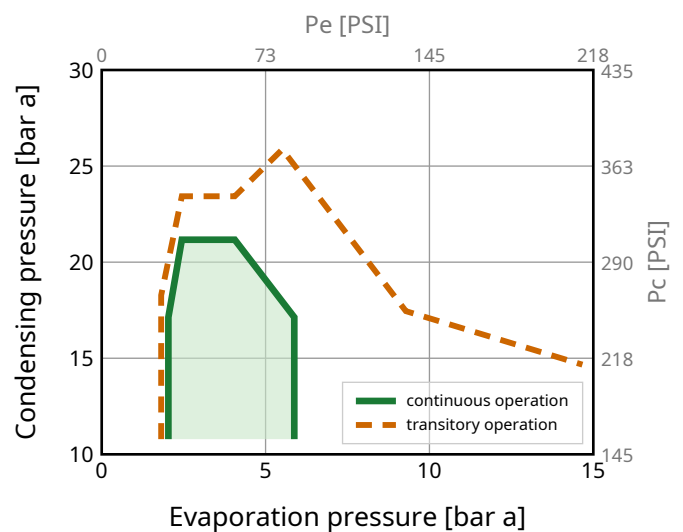
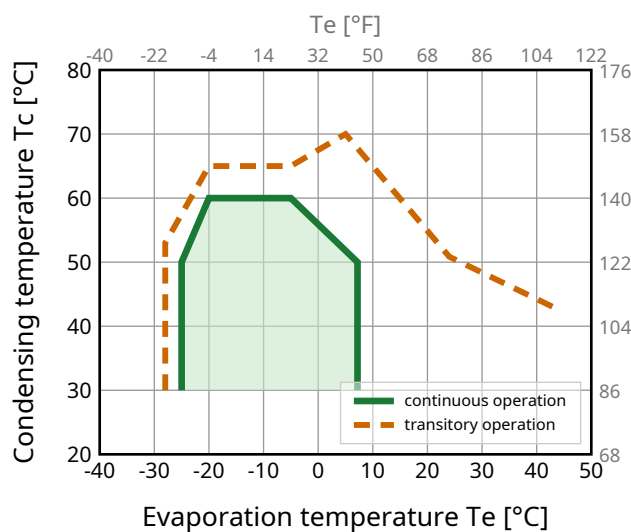
b plastic cover 103N2011

d cord relief 103N1010

bracket for run capacitor 117-0300

screw M4x8mm 117-0301

Operation Pressure Range



Model

NLE11MNT

Configuration 3

Sales code:

105H6199

Standard Conditions

R290, 230 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	1202	4100	1033	2.18	7.44	551	2.69	13.76	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	962	3284	828	1.83	6.25	525	2.60	12.24	CECOMAF MBP
-10 14	45 113	20 68	45 113	1054	3595	906	2.17	7.40	486	2.47	12.96	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1122	3828	965	2.13	7.27	526	2.61	14.59	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1095	3737	942	2.25	7.69	486	2.47	12.58	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	716	2444	616	1.87	6.39	382	2.11	7.28	opt LBP

Performance Tables

R290, 230 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	594	2026	511	1.61	5.50	368	2.06	6.73
-20	-4	740	2526	637	1.81	6.17	409	2.20	8.42
-15	5	907	3094	780	2.02	6.89	449	2.34	10.36
-10	14	1095	3737	942	2.25	7.69	486	2.47	12.58
-5	23	1308	4464	1125	2.52	8.61	519	2.59	15.11
0	32	1548	5283	1332	2.83	9.67	546	2.69	18.00
5	41	1818	6202	1563	3.20	10.93	567	2.77	21.30
7.2	45	1946	6640	1674	3.39	11.56	574	2.80	22.90

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

-25	-13	520	1775	447	1.34	4.58	387	2.10	6.52
-20	-4	650	2220	559	1.50	5.11	434	2.26	8.19
-15	5	797	2719	685	1.66	5.65	481	2.43	10.08
-10	14	962	3284	828	1.83	6.25	525	2.60	12.24
-5	23	1149	3920	988	2.03	6.92	566	2.75	14.71
0	32	1359	4637	1169	2.25	7.69	603	2.90	17.52
5	41	1595	5442	1372	2.52	8.58	634	3.02	20.75
7.2	45	1708	5827	1469	2.65	9.02	646	3.07	22.31

Model

NLE11MNT

Configuration 4

Sales code:

105H6199

Configuration

Motor configuration	eRSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	LST
Approvals	UL, CB
Starting device type	e-PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	18.17 A
RLA (rated load amps / 1s/ U(N))	3.4 A
Cut in current (U(N))	18.17 A

Ambient/ machine room temperatures minimum /maximum

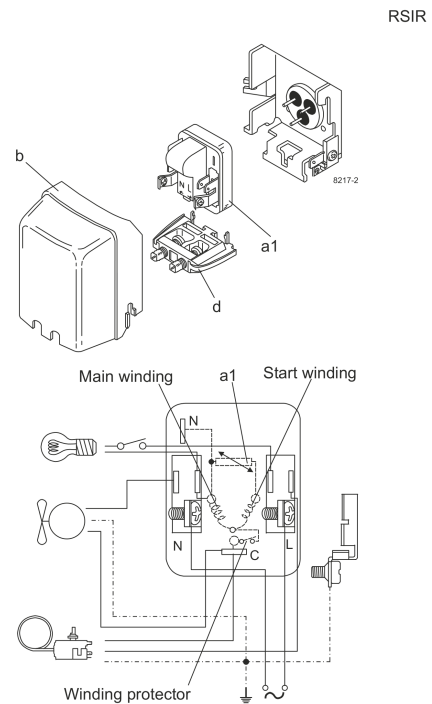
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



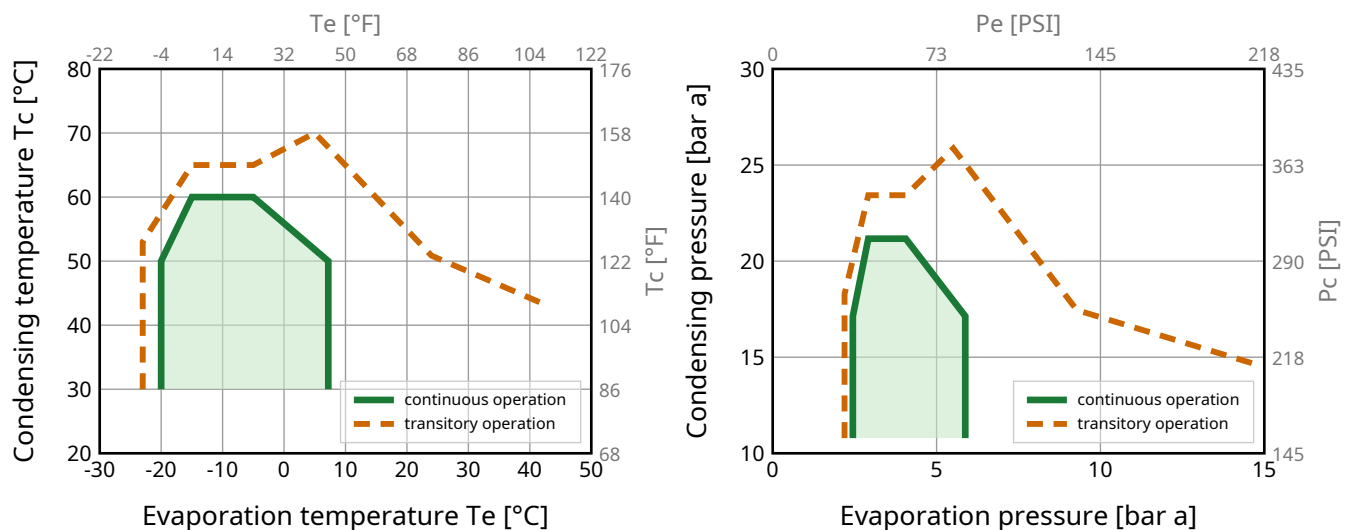
Components

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

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model

NLE11MNT

Configuration 4

Sales code:

105H6199

Standard Conditions

R290, 230 V/60 Hz, eRSIR, 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	1177	4017	1013	2.02	6.89	583	3.29	13.48	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	942	3215	810	1.70	5.79	556	3.19	11.98	CECOMAF MBP
-10 14	45 113	20 68	45 113	1040	3547	894	2.03	6.93	512	3.03	12.79	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1104	3767	950	1.98	6.77	556	3.19	14.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1081	3688	929	2.11	7.21	512	3.03	12.41	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	708	2417	609	1.77	6.04	400	2.63	7.20	opt LBP

Performance Tables

R290, 230 V/60 Hz, eRSIR, 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	732	2496	629	1.70	5.81	429	2.73	8.32
-15	5	895	3054	770	1.90	6.47	472	2.88	10.23
-10	14	1081	3688	929	2.11	7.21	512	3.03	12.41
-5	23	1291	4405	1110	2.36	8.05	548	3.16	14.91
0	32	1528	5213	1314	2.64	9.02	578	3.27	17.77
5	41	1794	6121	1543	2.98	10.18	601	3.35	21.02
7.2	45	1921	6555	1652	3.16	10.77	609	3.38	22.60

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

-20	-4	638	2175	548	1.40	4.76	457	2.83	8.03
-15	5	780	2663	671	1.54	5.25	507	3.01	9.87
-10	14	942	3215	810	1.70	5.79	556	3.19	11.98
-5	23	1126	3841	968	1.87	6.39	601	3.35	14.41
0	32	1333	4548	1146	2.08	7.09	641	3.49	17.19
5	41	1566	5344	1347	2.32	7.91	675	3.62	20.37
7.2	45	1678	5724	1443	2.44	8.32	688	3.66	21.92

Model

NLE11MNT

Configuration 5

Sales code:

105H6199

Configuration

Motor configuration	eRSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-242 V
Starting torque	LST
Approvals	UL, CB
Starting device type	e-PTC
Run capacitor	-/-
Start capacitor	-/-
LRA (locked rotor amps / 4s/ U(N))	18.17 A
RLA (rated load amps / 1s/ U(N))	3.4 A
Cut in current (U(N))	18.17 A

Ambient/ machine room temperatures minimum /maximum

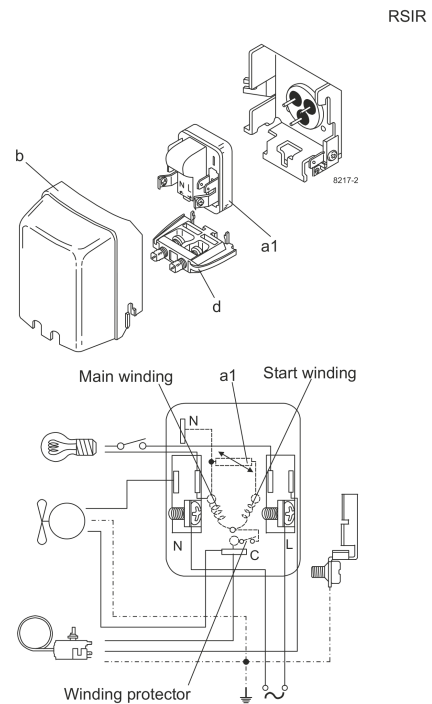
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



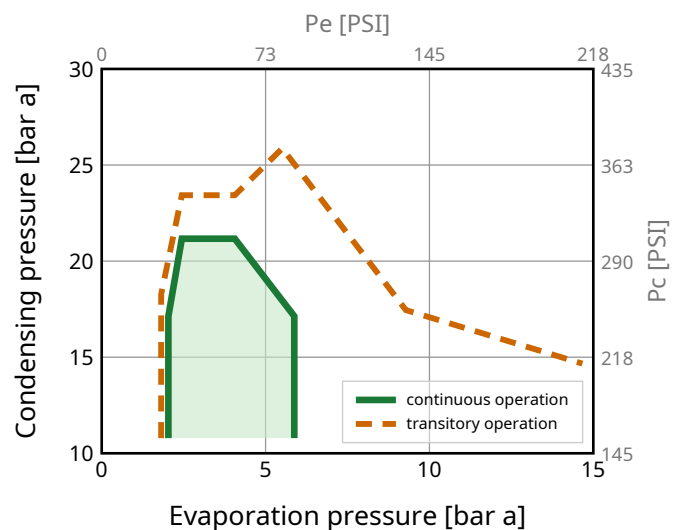
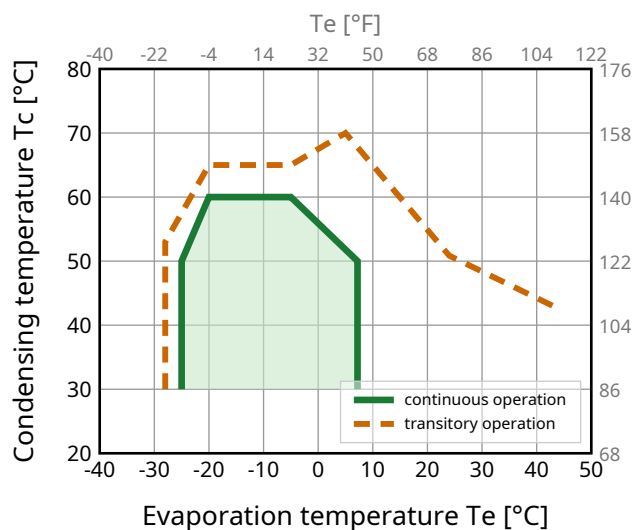
Components

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

b plastic cover 103N2011

d cord relief 103N1010

Operation Pressure Range



Model
NLE11MNT

Configuration 5

Sales code:
105H6199

Standard Conditions

R290, 230 V/60 Hz, eRSIR, 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	1177	4017	1013	2.02	6.89	583	3.29	13.48	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	942	3215	810	1.70	5.79	556	3.19	11.98	CECOMAF MBP
-10 14	45 113	20 68	45 113	1040	3547	894	2.03	6.93	512	3.03	12.79	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1104	3767	950	1.98	6.77	556	3.19	14.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1081	3688	929	2.11	7.21	512	3.03	12.41	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	708	2417	609	1.77	6.04	400	2.63	7.20	opt LBP

Performance Tables

R290, 230 V/60 Hz, eRSIR, 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	588	2005	505	1.52	5.20	385	2.57	6.66
-20	-4	732	2496	629	1.70	5.81	429	2.73	8.32
-15	5	895	3054	770	1.90	6.47	472	2.88	10.23
-10	14	1081	3688	929	2.11	7.21	512	3.03	12.41
-5	23	1291	4405	1110	2.36	8.05	548	3.16	14.91
0	32	1528	5213	1314	2.64	9.02	578	3.27	17.77
5	41	1794	6121	1543	2.98	10.18	601	3.35	21.02
7.2	45	1921	6555	1652	3.16	10.77	609	3.38	22.60

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

-25	-13	511	1745	440	1.26	4.29	407	2.65	6.41
-20	-4	638	2175	548	1.40	4.76	457	2.83	8.03
-15	5	780	2663	671	1.54	5.25	507	3.01	9.87
-10	14	942	3215	810	1.70	5.79	556	3.19	11.98
-5	23	1126	3841	968	1.87	6.39	601	3.35	14.41
0	32	1333	4548	1146	2.08	7.09	641	3.49	17.19
5	41	1566	5344	1347	2.32	7.91	675	3.62	20.37
7.2	45	1678	5724	1443	2.44	8.32	688	3.66	21.92