

Model

Designation	NLE11MN	115-127V/60Hz 1~	Sales code:	105H5980
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cST	Displacement	11,15cm³ / 0,68cu.in
Oil quantity	300cm³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	150g / 5,3oz		
Free gas volume comp.	2360cm³ / 79,8fl.oz		
Weight	12,14kg / 26,8lbs		
Motor protection	1# internal		
Winding resistance main	0,8Ω (at 25°C)		
Winding resistance aux	3,25Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE11MN

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motorconfiguration	CSIR	CSIR	RSCR	RSCR
Power supply (nominal)	115V/60Hz	115V/60Hz	115V/60Hz	115V/60Hz
Number of phases	1	1	1	1
Voltage range	95-127V	95-135V	95-127V	95-135V
Approvals	UL, CCC	UL, CCC	UL, CCC	UL, CCC
Starting torque	HST	HST	LST	LST
Note	- / -			

Applications with NLE11MN

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Refrigerant	R290	R290	R290	R290
Application	MBP	MBP	MBP	MBP
System cooling	fan 3m/s	fan 3m/s	fan 3m/s	fan 3m/s
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Electrical data - Configurations with NLE11MN

	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Starting device type	relay	relay	PTC	PTC
Run capacitor	-/-	-/-	23,5μF	23,5μF
Start capacitor	240μF	240μF	-/-	-/-
LRA (locked rotor amps / 4s)	40,23A	40,23A	41,7A	41,7A
RLA (rated load amps / 1s)	8,37A	8,37A	8,37A	8,37A
Cut in current	40,23A	40,23A	51,83A	51,83A
IP class	21	21	21	21

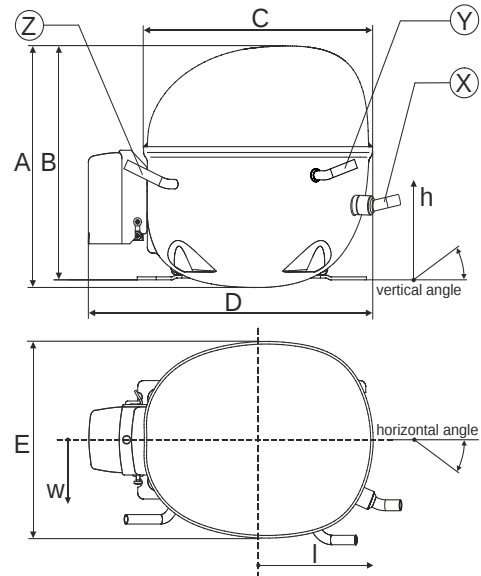
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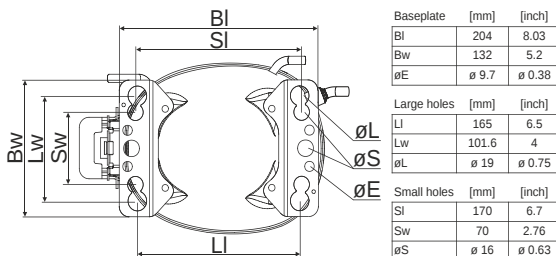
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

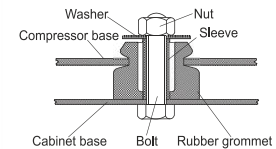
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle	±2° 22°	0°	0°
Vertical angle	±2° 45°	15°	155°
Position l/h/w [mm]	128/79/61	88/95/85	-112/97/68
	[in] 5/3,1/2,4	3,5/3,7/3,3	-4,4/3,8/2,7
Straight tube l. [mm]	12	12	12
	[in] 0,5	0,5	0,5



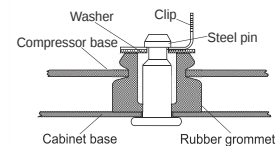
Compressor fixation



Bolt joint



Snap-on

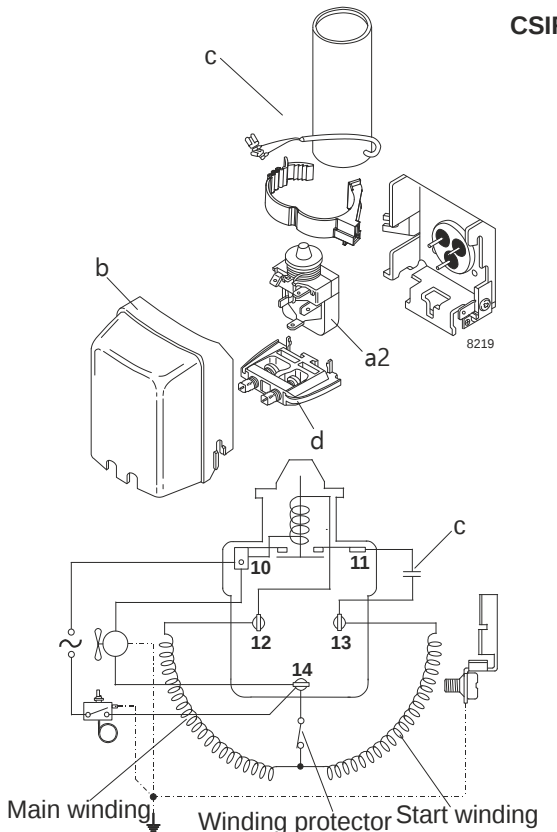


Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Bolt joint ø1/4" ø19mm	118-1949	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Application notes

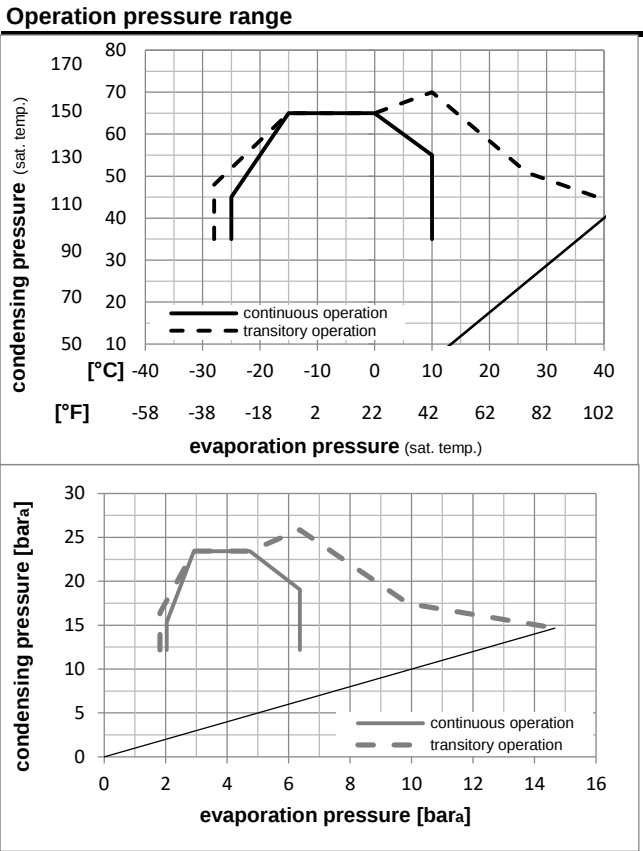
LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

Model			
Designation	NLE11MN	115V/60Hz	Conf. 1
			Sales code: 105H5980

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	CSIR		
Power supply (nominal)	115V/60Hz 1~		
Refrigerant	R290		
Application	MBP		
Voltage range	95-127V		
Starting torque	HST		
Approvals	UL	SA3693	
	CCC		

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



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

Model

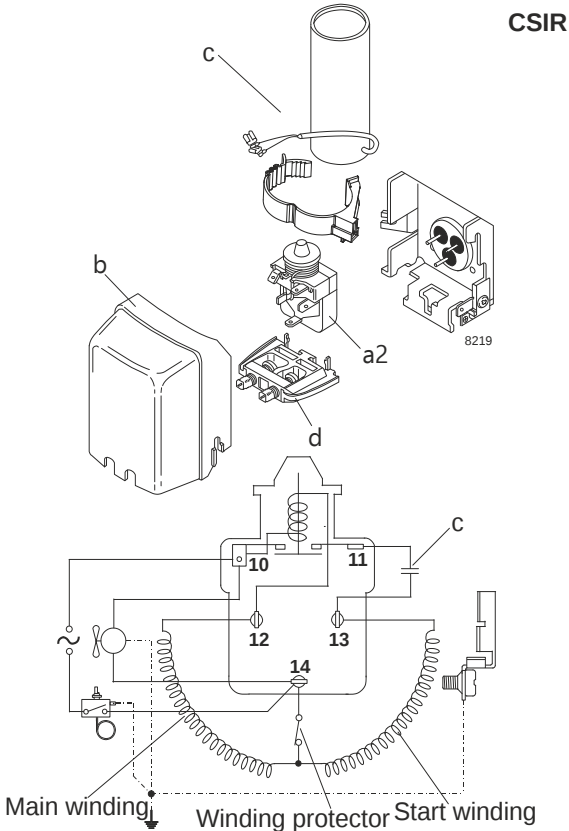
Designation	NLE11MN	115V/60Hz	Conf. 1	Sales code:	105H5980
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Optimization + standard conditions

115V/60Hz, CSIR, fan 3m/s, UL, CCC

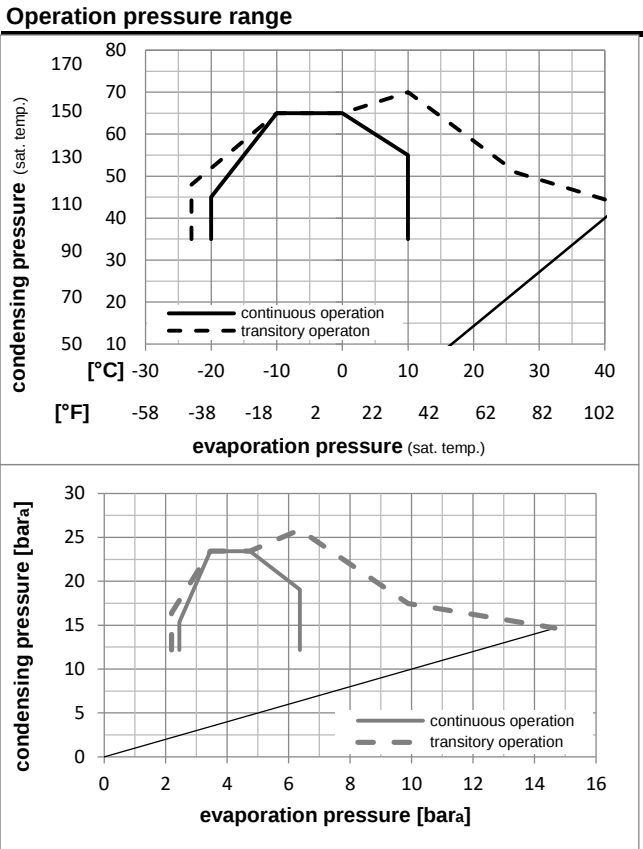
Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-6,66	54,4	35	46,1	1202,7	4107	1035,1	2,04	6,97	1,76	589,1	7,15	13,72	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	959,7	3278	825,9	1,71	5,83	1,47	561,8	6,96	12,14	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	1058,4	3615	910,9	2,04	6,96	1,75	519,1	6,77	12,99	EN12900 MBP
[°F]	14	113	68	113										
[°C]	-6,66	48,9	18,3	48,9	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60	ARI540 MBP
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61	opt
[°F]	14	113	89,6	113										
[°C]	-25	45	32	45	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70	opt
[°F]	-13	113	89,6	113										

Model			
Designation	NLE11MN	115V/60Hz	Conf. 2
			Sales code: 105H5980

Configuration		Electrical accessories / wiring diagram	
Motorconfiguration	CSIR		
Power supply (nominal)	115V/60Hz 1~		
Refrigerant	R290		
Application	MBP		
Voltage range	95-135V		
Starting torque	HST		
Approvals	UL	SA3693	
	CCC		

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



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

Model

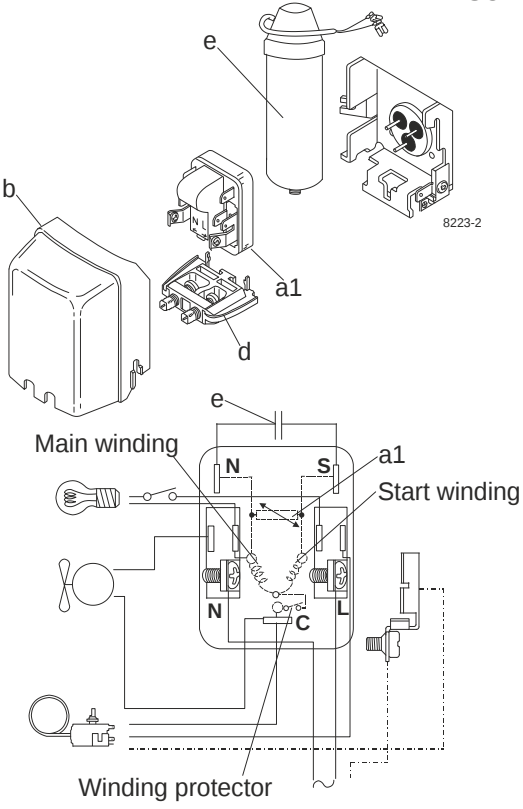
Designation	NLE11MN	115V/60Hz	Conf. 2	Sales code:	105H5980
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Optimization + standard conditions

115V/60Hz, CSIR, fan 3m/s, UL, CCC

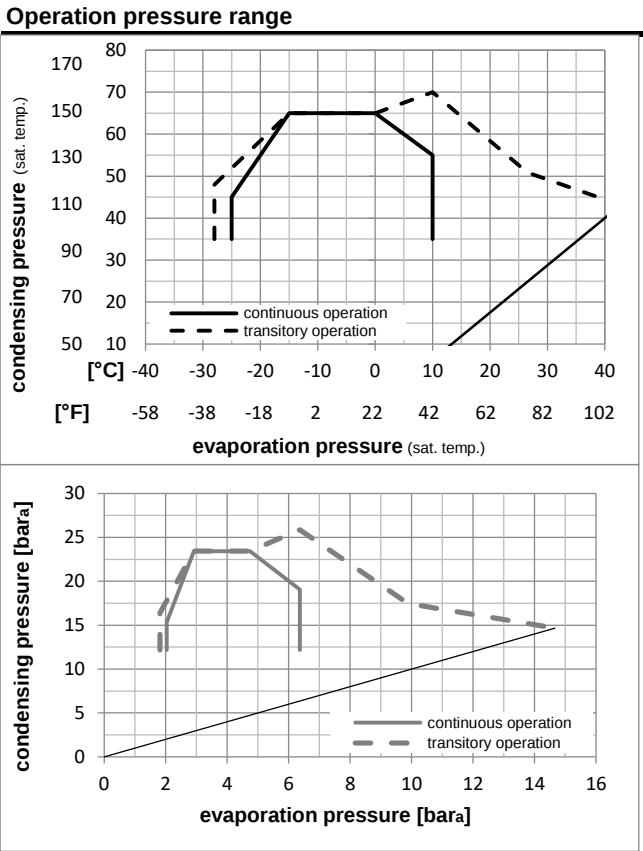
	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)										Current consumption			
	Return gas temp.										Ref. mass flow			
	Liquid temp.													
	Cooling capacity										COP	EER	P1	I
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/W/h]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-6,66	54,4	35	46,1	1202,7	4107	1035,1	2,04	6,97	1,76	589,1	7,15	13,72	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	959,7	3278	825,9	1,71	5,83	1,47	561,8	6,96	12,14	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	1058,4	3615	910,9	2,04	6,96	1,75	519,1	6,77	12,99	EN12900 MBP
[°F]	14	113	68	113										
[°C]	-6,66	48,9	18,3	48,9	1124,6	3841	967,8	2,00	6,83	1,72	562,1	7,01	14,60	ARI540 MBP
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1101,8	3763	948,2	2,12	7,25	1,83	519,1	6,77	12,61	opt
[°F]	14	113	89,6	113										
[°C]	-25	45	32	45	594,0	2029	511,2	1,45	4,94	1,24	410,8	6,09	6,70	opt
[°F]	-13	113	89,6	113										

Model				
Designation	NLE11MN	115V/60Hz	Conf. 3	Sales code: 105H5980

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSCR			
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	95-127V			
Starting torque	LST			
Approvals	UL SA3693			
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



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

Model

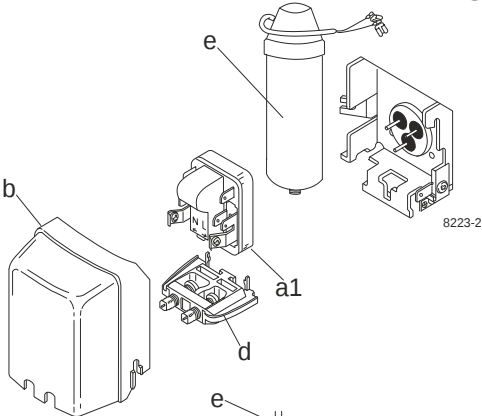
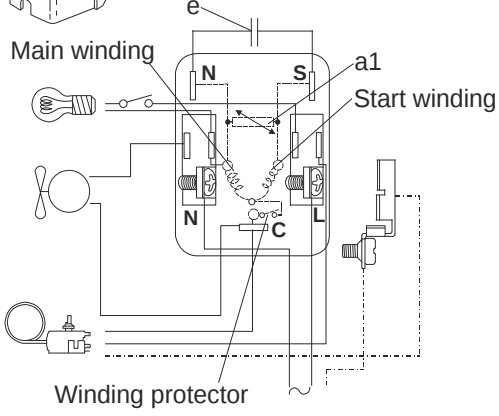
Designation	NLE11MN	115V/60Hz	Conf. 3	Sales code:	105H5980
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Optimization + standard conditions

115V/60Hz, RSCR, fan 3m/s, UL, CCC

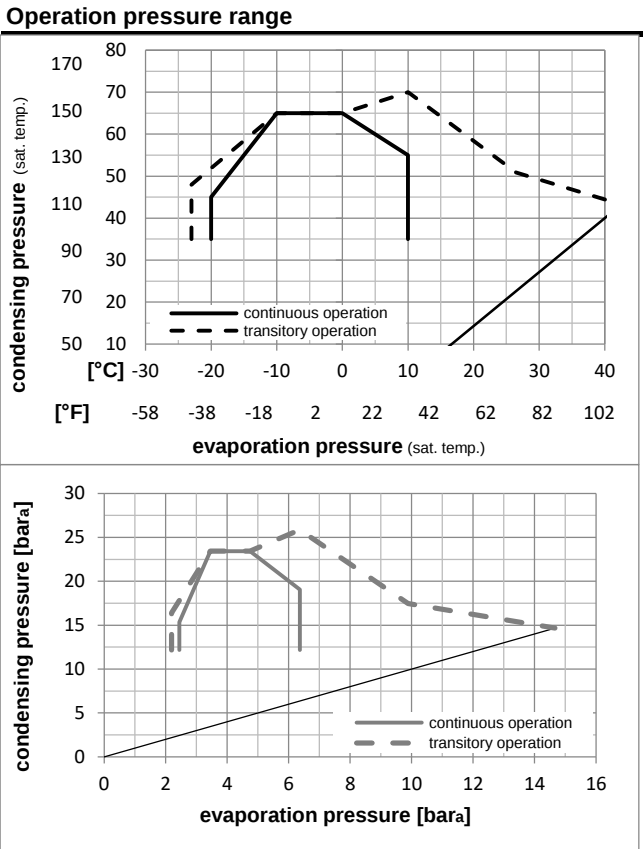
	Evaporating pressure (saturation temperature)										Power consumption			
	Condensing pressure (saturation temperature)									Current consumption			Ref. mass flow ṁ	
	Return gas temp.				Cooling capacity	COP	EER	P1	I					
	Liquid temp.													
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]		
[°C]	-6,66	54,4	35	46,1	1221,4	4171	1051,2	2,20	7,51	1,89	555,5	6,74	13,93	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	975,1	3330	839,2	1,84	6,29	1,58	529,7	6,56	12,33	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	1067,3	3645	918,5	2,18	7,45	1,88	489,5	6,38	13,10	EN12900 MBP
[°F]	14	113	68	113										
[°C]	-6,66	48,9	18,3	48,9	1138,5	3888	979,8	2,15	7,34	1,85	530,0	6,61	14,78	ARI540 MBP
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1111,1	3795	956,3	2,27	7,75	1,95	489,5	6,38	12,71	opt
[°F]	14	113	89,6	113										
[°C]	-25	45	32	45	598,4	2044	515,0	1,54	5,28	1,33	387,4	5,75	6,75	opt
[°F]	-13	113	89,6	113										

Model				
Designation	NLE11MN	115V/60Hz	Conf. 4	Sales code: 105H5980

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSCR	RSCR 		
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R290			
Application	MBP			
Voltage range	95-135V			
Starting torque	LST			
Approvals	UL SA3693			
	CCC			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	n/a	fan 3m/s	n/a
38°C / 100°F	n/a	fan 3m/s	n/a
43°C / 110°F	n/a	fan 3m/s	n/a



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

Model

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Optimization + standard conditions

115V/60Hz, RSCR, fan 3m/s, UL, CCC

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	
[°C]	-6,66	54,4	35	46,1	1221,4	4171	1051,2	2,20	7,51	1,89	555,5	6,74	13,93	ASHRAE MBP
[°F]	20	130	95	115										
[°C]	-10	55	32	55	975,1	3330	839,2	1,84	6,29	1,58	529,7	6,56	12,33	cecomaf MBP
[°F]	14	131	89,6	131										
[°C]	-10	45	20	45	1067,3	3645	918,5	2,18	7,45	1,88	489,5	6,38	13,10	EN12900 MBP
[°F]	14	113	68	113										
[°C]	-6,66	48,9	18,3	48,9	1138,5	3888	979,8	2,15	7,34	1,85	530,0	6,61	14,78	ARI540 MBP
[°F]	20	120	65	120										
[°C]	-10	45	32	45	1111,1	3795	956,3	2,27	7,75	1,95	489,5	6,38	12,71	opt
[°F]	14	113	89,6	113										
[°C]	-25	45	32	45	598,4	2044	515,0	1,54	5,28	1,33	387,4	5,75	6,75	opt
[°F]	-13	113	89,6	113										