

Model

Designation	NLE12.6MN	220-240V/50Hz 1~	Sales code:	105H6379
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cST	Displacement	12,55cm ³ / 0,77cu.in
Oil quantity	298cm ³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	300g / 10,6oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	12,1kg / 26,7lbs		
Motor protection	1# internal		
Winding resistance main	5Ω (at 25°C)		
Winding resistance aux	9,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE12.6MN

	Conf. 1
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC, EAC
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with NLE12.6MN

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

Electrical data - Configurations with NLE12.6MN

	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s)	15,6A
RLA (rated load amps / 1s)	2,7A
Cut in current	21,2A

Model

Designation

NLE12.6MN

220-240V/50Hz 1~

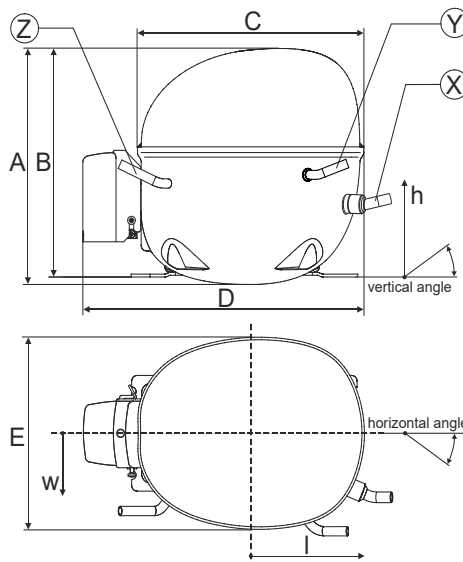
Sales code:

105H6379

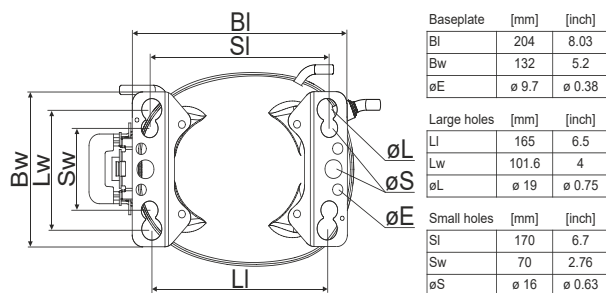
Compressor dimensions

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	Discharge	Process
		X	Y	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°	0°	0°	0°
Vertical angle	±2°	15°	21°	155°
Position l/h/w	[mm]	132/69/57	94/102/81	-109/94/72
	[in]	5,2/2,7/2,2	3,7/4/3,2	-4,3/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5



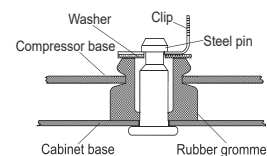
Compressor fixation



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

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

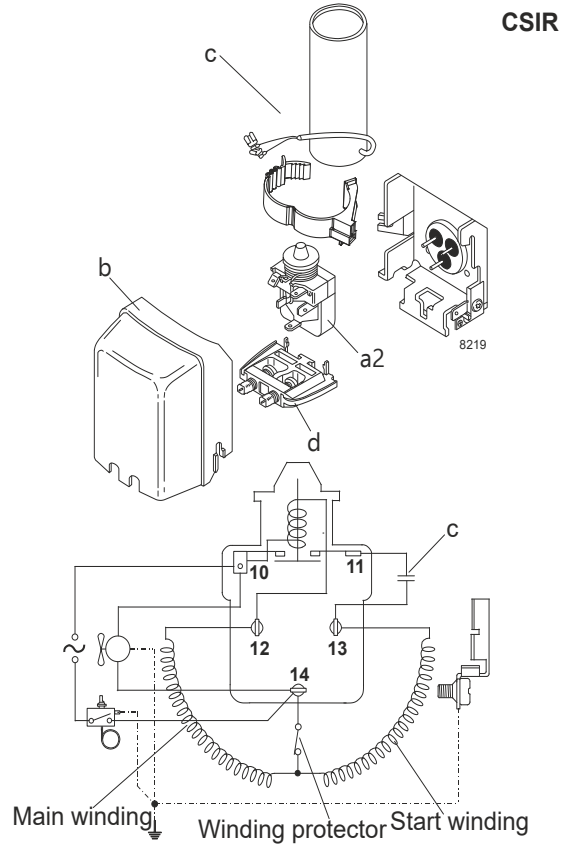
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	CCC
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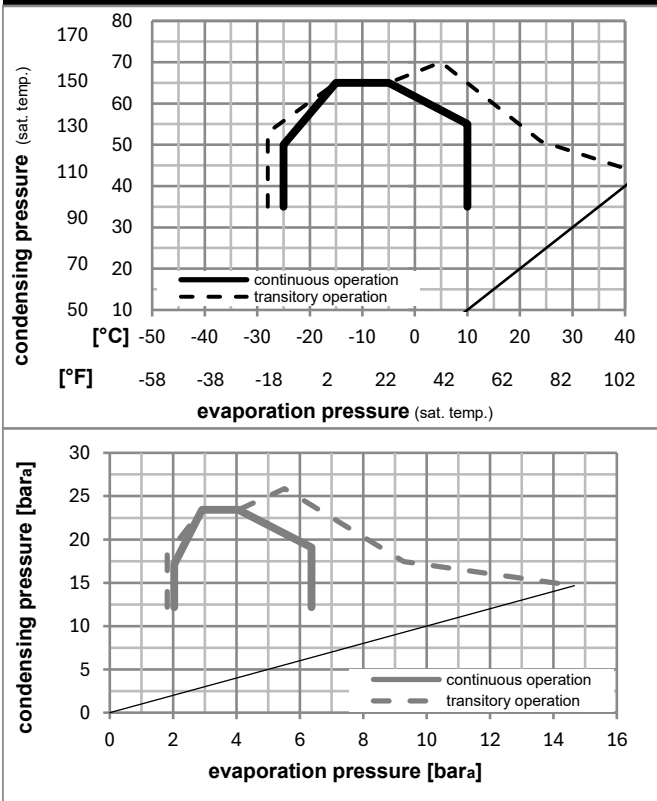
Electrical accessories / wiring diagram



Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components (already pre-assembled)

a2	relay	117U7011
c	start capacitor (80µF)	117U5015
b	plastic cover	103N2010
d	cord relief	103N1010

Alternative comp. (already pre-assembled)

b	plastic cover	103N2011
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Optimization + standard conditions

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.			Liquid temp.			Cooling capacity			COP	EER	Power consumption			ASHRAE MBP
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	[W]	[A]	[kg/h]	cecomaf MBP					
[°C]	[°F]																						
-7	20	54	130	35	95	46	115	1060,9	3623	913,0	1,97	6,74	1,70	537,5	3,10	12,10							
-10	14	55	131	32	90	55	131	842,6	2878	725,2	1,66	5,67	1,43	507,7	2,99	10,66							
-10	14	45	113	20	68	45	113	949,0	3241	816,7	2,05	7,01	1,77	462,3	2,77	11,65							
-7	20	49	120	18	65	49	120	1004,0	3429	864,0	1,98	6,76	1,70	506,9	2,95	13,04							
-10	14	45	113	32	90	45	113	987,9	3374	850,2	2,14	7,30	1,84	462,3	2,77	11,30							
-25	-13	45	113	32	90	45	113	536,2	1831	461,5	1,53	5,21	1,31	351,5	2,41	6,05							

Performance tables

R290, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-25	-13	536,2	1831	461,5	1,53	5,21	1,31	351,5	2,41	6,05
cond. pressure	-20	-4	663,0	2264	570,5	1,71	5,84	1,47	387,9	2,52	7,51
pc= 45/113	-15	5	813,0	2776	699,6	1,91	6,53	1,65	425,1	2,65	9,25
return gas temp.	-10	14	987,9	3374	850,2	2,14	7,30	1,84	462,3	2,77	11,30
RGT= 32/90	0	32	1419,6	4848	1221,7	2,66	9,07	2,29	534,6	3,06	16,47
liquid temp	5	41	1679,8	5737	1445,6	2,96	10,09	2,54	568,4	3,22	19,65
Tliq= 45/113	10	50	1971,8	6734	1696,9	3,29	11,23	2,83	599,9	3,39	23,30
[°C / °F]	-25	-13	451,6	1542	388,7	1,21	4,14	1,04	372,6	2,49	5,62
cond. pressure	-20	-4	561,6	1918	483,4	1,35	4,62	1,17	414,9	2,64	7,02
pc= 55/131	-15	5	691,4	2361	595,0	1,50	5,13	1,29	460,1	2,81	8,69
return gas temp	-10	14	842,6	2878	725,2	1,66	5,67	1,43	507,7	2,99	10,66
RGT= 32/90	0	32	1216,3	4154	1046,8	2,00	6,84	1,72	607,6	3,39	15,62
liquid temp	5	41	1442,2	4925	1241,2	2,19	7,48	1,88	658,7	3,61	18,70
Tliq= 55/131	10	50	1696,5	5794	1460,0	2,39	8,16	2,06	709,7	3,85	22,24