

Model	Customer specific model		
Designation	NLE12.6CNL	220-240V/50Hz 1~	Sales code: 105H6376

Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	12,55cm³ / 0,77cu.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	11,8kg / 26lbs		
Motor protection	1# internal		
Winding resistance main	5,64Ω (at 25°C)		
Winding resistance aux	8,49Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NLE12.6CNL

Conf. 1

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

Applications with NLE12.6CNL

Conf. 1

Refrigerant	R290
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with NLE12.6CNL

Conf. 1

Starting device type	relay
Run capacitor	-/-
Start capacitor	80μF
LRA (locked rotor amps / 4s)	12,5A
RLA (rated load amps / 1s)	2,56A
Cut in current	12,5A
IP class	21

Model

Customer specific model

Designation

NLE12.6CNL 220-240V/50Hz 1~

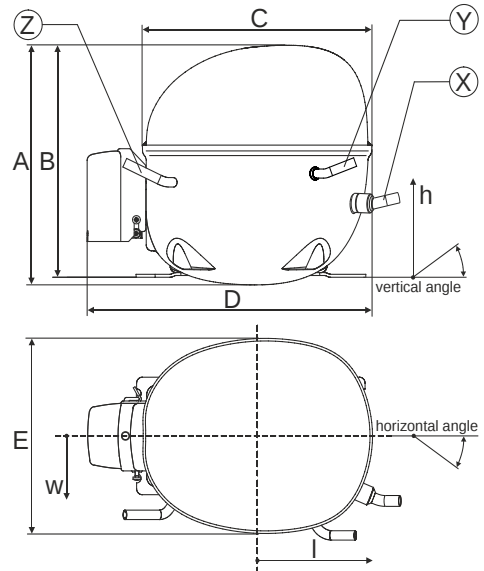
Sales code:

105H6376

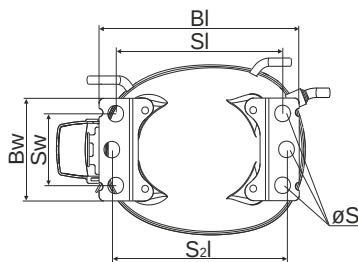
Compressor dimensions

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 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/69/56	94/99/86	-111/92/72
[in]	5,2/2,7/2,2	3,7/3,9/3,4	-4,4/3,6/2,8
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5

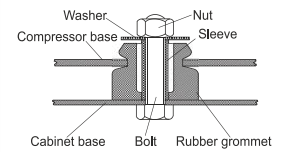


Compressor fixation

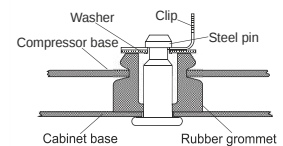


Baseplate	[mm]	[inch]
BI	204	8.03
BW	100	3.94
Small holes	[mm]	[inch]
SI	170	6.7
SW	70	2.76
S2I	178	7
ØS	ø 16	ø 0.63

Bolt joint



Snap-on



Mounting accessories

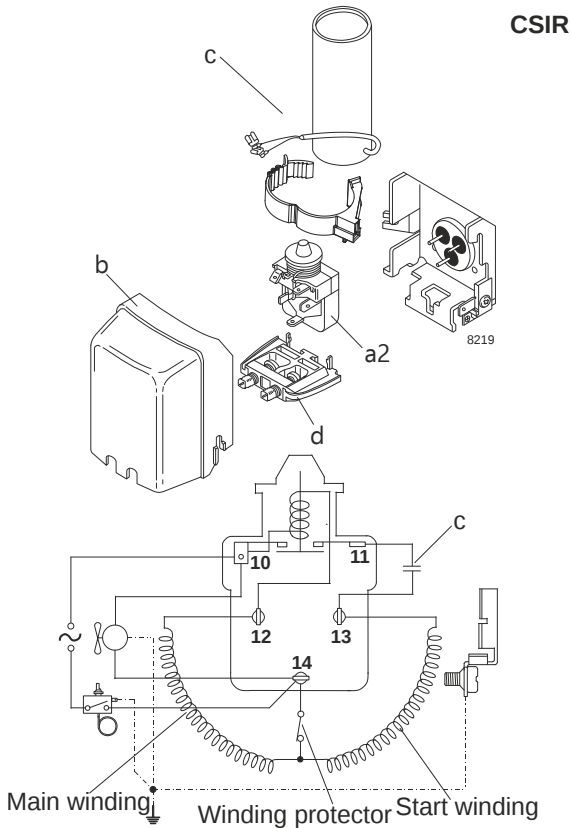
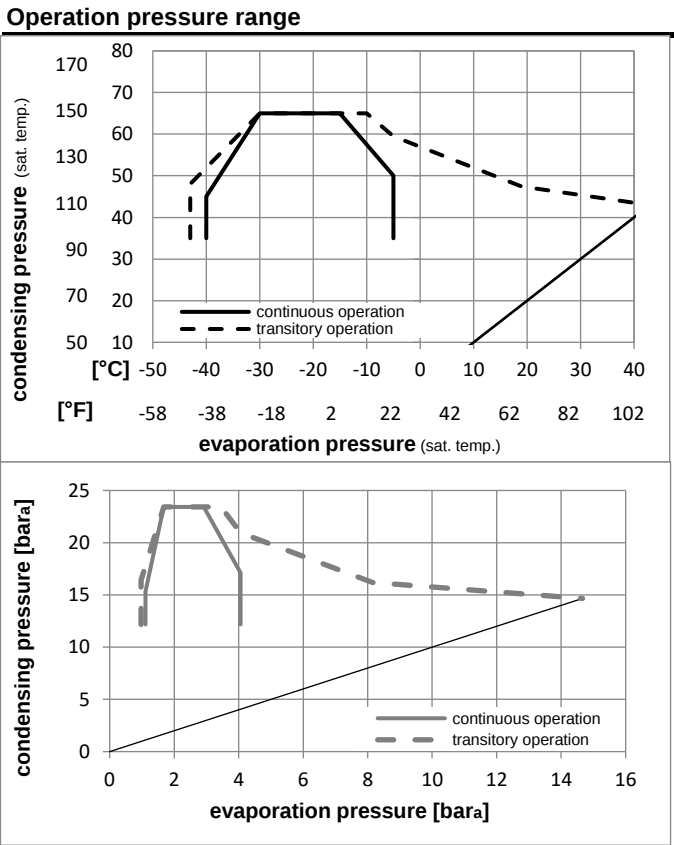
	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Model			
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Configuration	Electrical accessories / wiring diagram
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254V
Starting torque	HST
Approvals	VDE
	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	fan 3m/s	n/a	n/a
38°C / 100°F	fan 3m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a



Components (already pre-assembled)		
a2	relay	117U7003
c	start capacitor (80μF)	117U5015
b	plastic cover	103N2010
d	cord relief	103N1010

Alternative components		
b	plastic cover	103N2011

Customer specific model

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Optimization + standard conditions

220-240V/50Hz 1~, CSIR, fan 3m/s, VDE, 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]										[W]	[A]	[kg/h]		
-23,3	54,4	32,2	32,2	609,8	2083	524,8	1,62	5,55	1,40	375,5	2,24	6,18	ASHRAE	LBP
[°F]	-10	130	90											
-25	55	32	55	459,7	1570	395,6	1,27	4,33	1,09	362,2	2,19	5,72	cecomaf	LBP
[°F]	-13	131	89,6											
-35	40	20	40	354,2	1210	304,8	1,33	4,55	1,15	265,6	1,87	4,05	EN12900	LBP
[°F]	-31	104	68											
-23,3	48,9	4,44	48,9	493,6	1686	424,8	1,36	4,64	1,17	363,1	2,20	6,84	ARI540	LBP
[°F]	-10	120	40											
-23,3	40,6	32,2	32,2	659,7	2253	567,8	1,91	6,53	1,65	345,0	2,13	6,68	AHAM	LBP
[°F]	-10	105	90											
-35	45	32	45	338,9	1157	291,6	1,25	4,28	1,08	270,4	1,89	3,80	opt	
[°F]	-31	113	89,6											

Performance tables

220-240V/50Hz 1~, CSIR, fan 3m/s, VDE, CCC

	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]	-40	-40	258,9	884	222,8	1,11	3,78	0,95	233,9		1,78	2,89
cond. pressure	-35	-31	338,9	1157	291,6	1,25	4,28	1,08	270,4		1,89	3,80
pc= 45/113	-30	-22	430,1	1469	370,2	1,41	4,80	1,21	306,1		2,00	4,83
return gas temp.	-25	-13	536,4	1832	461,6	1,57	5,36	1,35	341,9		2,12	6,05
RGT= 32/90	-20	-4	661,6	2259	569,4	1,75	5,97	1,50	378,6		2,26	7,49
liquid temp	-15	5	809,3	2764	696,5	1,94	6,63	1,67	417,1		2,41	9,21
Tliq= 45/113	-5	23	1187,9	4057	1022,3	2,36	8,07	2,03	503,0		2,78	13,68
[°C / °F]	-40	-40	215,7	737	185,7	0,91	3,09	0,78	238,1		1,77	2,66
cond. pressure	-35	-31	287,2	981	247,2	1,03	3,52	0,89	279,0		1,90	3,55
pc= 55/131	-30	-22	367,3	1254	316,1	1,15	3,92	0,99	320,1		2,04	4,56
return gas temp	-25	-13	459,7	1570	395,6	1,27	4,33	1,09	362,2		2,19	5,72
RGT= 32/90	-20	-4	568,3	1941	489,1	1,40	4,78	1,20	406,1		2,36	7,11
liquid temp	-15	5	696,7	2379	599,6	1,54	5,25	1,32	452,8		2,55	8,76
Tliq= 55/131	-5	23	1028,4	3512	885,1	1,84	6,30	1,59	557,8		3,00	13,10