Singolo
Imballi

Single Pack NLE12.6MFT 220-240V 50/60Hz CSIR

Codice Imballo Singolo: **195B4692**

Posizione	Titolo	Codice	Quantità
1	Compressor NLE12.6MFT	105G6388	1
2	Starting relay	117U6005	1
3	Starting capacitor (80µF 220V, 6.3mm)	117U5015	1
4	Cord relief	103N1010	1
5	Cover	103N2010	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NLE12.6MFT

Sales code:
105G6388

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**600g / 21.16oz**
Weight	**11.50 kg / 25.35lbs**
Displacement	**12.55 cm3 / 0.77cu.in**
Compressors on pallet	**80**

General – Configurations With NLE12.6MFT

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4	Conf. 5
Motor configuration	CSIR	eRSIR	eRSCR	CSIR	eRSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/60 Hz	220-240 V/60 Hz
Number of phases	1	1	1	1	1
Voltage range	187-254 V	187-254 V	187-254 V	198-254 V	198-254 V
Approvals	VDE	VDE	VDE	VDE	VDE
Starting torque	HST	LST	LST	HST	LST
Refrigerant	R134a	R134a	R134a	R134a	R134a
Application	LBP+MBP	LBP+MBP	LBP+MBP	LBP	LBP
Hot gas defrost	OK	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	–	–

Application Notes

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

Model
NLE12.6MFT

Sales code:
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Compressor Design

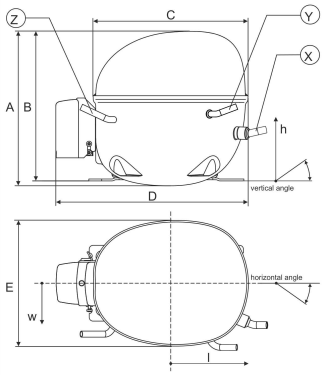
Oil type	**POE**	Winding resistance main	**4.94 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**8.89 Ohm**
Oil quantity	**295 / 9.98fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**120°C / 248°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

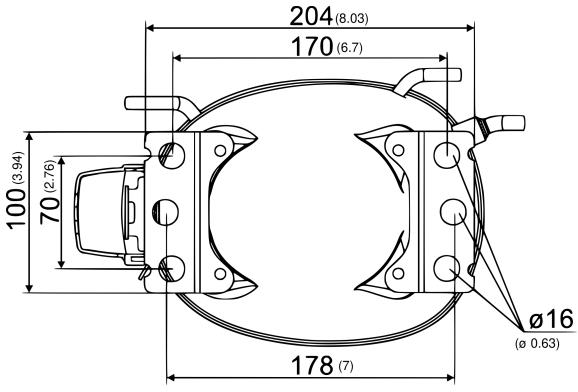
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



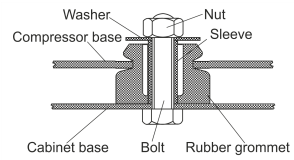
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	21°	155°
Position l/h/w [mm]	132/68.5/56.7 / 5.20/2.70/2.23in	94/101.7/81 / 3.70/4.00/3.19in	-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

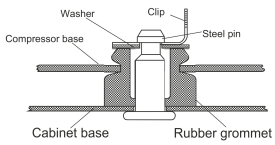


Dimensions in mm [in]

Bolt joint



Snap-on



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

Model

NLE12.6MFT Configuration 1

Sales code:

105G6388

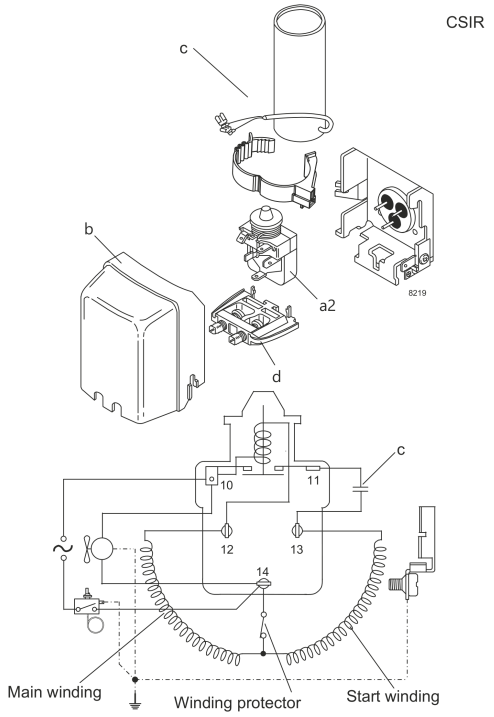
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.65 A**
RLA (rated load amps / 1s/ U(N))	**2.8 A**
Cut in current (U(N))	**13.65 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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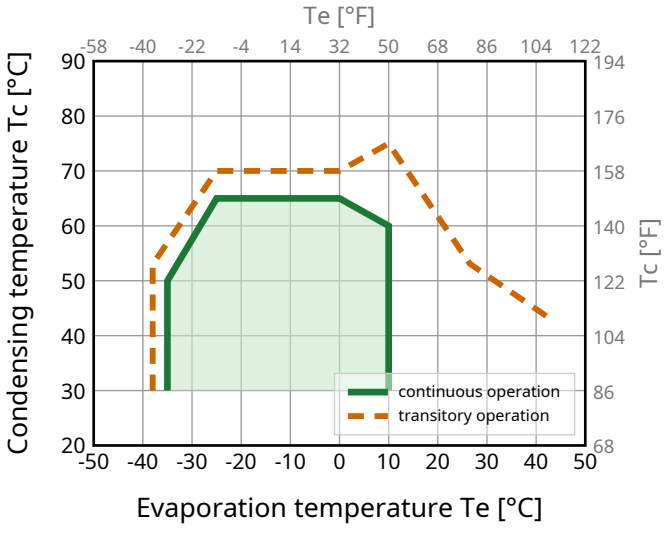
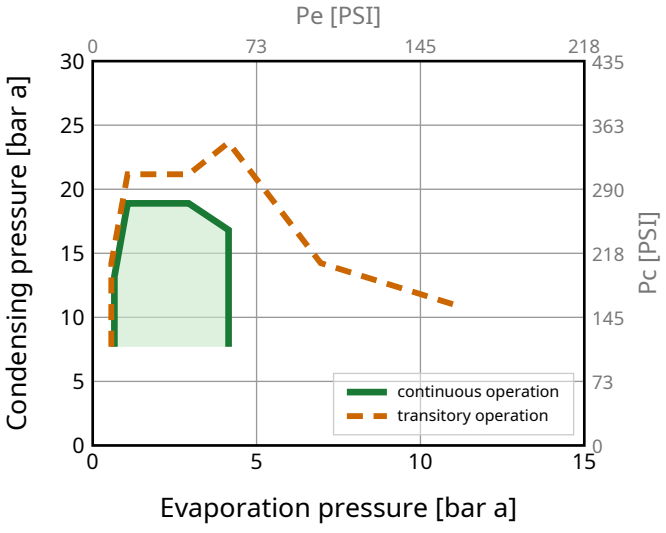
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model

NLE12.6MFT Configuration 1

Sales code:

105G6388

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**737**	2516	634	**1.98**	6.76	372	2.43	16.05	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**567**	1935	488	**1.65**	5.63	344	2.34	13.67	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**658**	2246	566	**2.00**	6.82	329	2.29	15.35	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**712**	2430	613	**1.97**	6.73	361	2.40	17.50	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**682**	2327	586	**2.07**	7.07	329	2.29	14.89	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**312**	1065	268	**1.38**	4.72	226	2.02	6.75	**opt MBP 2**

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**197**	673	170	**1.12**	3.81	176	1.97	4.25
-30	-22	**242**	824	208	**1.22**	4.15	198	1.98	5.21
-20	-4	**409**	1396	352	**1.59**	5.43	257	2.09	8.87
-10	14	**682**	2327	586	**2.07**	7.07	329	2.29	14.89
0	32	**1060**	3617	912	**2.60**	8.86	408	2.56	23.39
10	50	**1544**	5267	1327	**3.17**	10.81	487	2.85	34.55

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

-35	-31	**198**	676	170	**1.12**	3.81	178	1.98	4.70
-30	-22	**218**	745	188	**1.09**	3.73	200	1.99	5.19
-20	-4	**339**	1157	292	**1.29**	4.41	263	2.10	8.11
-10	14	**567**	1935	488	**1.65**	5.63	344	2.34	13.67
0	32	**902**	3077	776	**2.06**	7.04	437	2.66	21.99
10	50	**1344**	4584	1155	**2.51**	8.57	535	3.04	33.29

Model
NLE12.6MFT Configuration 2

Sales code:
105G6388

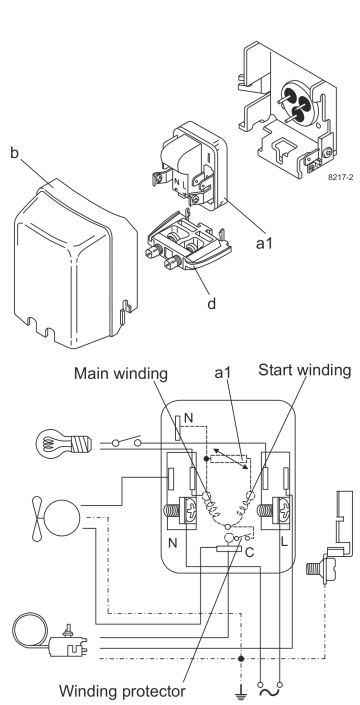
Configuration

Motor configuration	**eRSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.65 A**
RLA (rated load amps / 1s/ U(N))	**2.8 A**
Cut in current (U(N))	**13.65 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

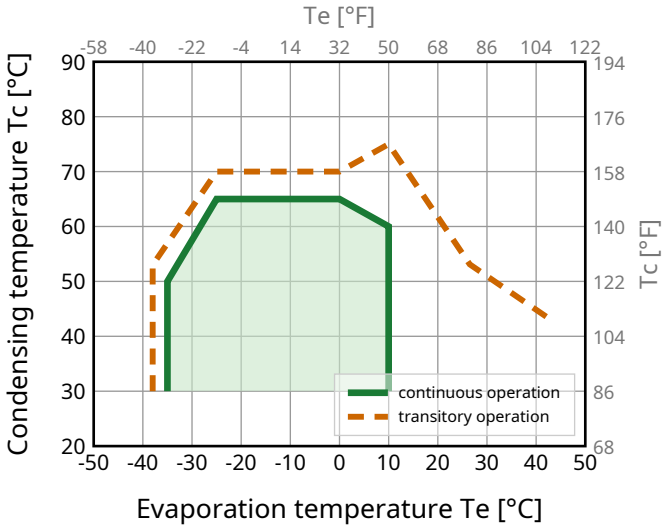
Electrical Accessories / Wiring Diagram

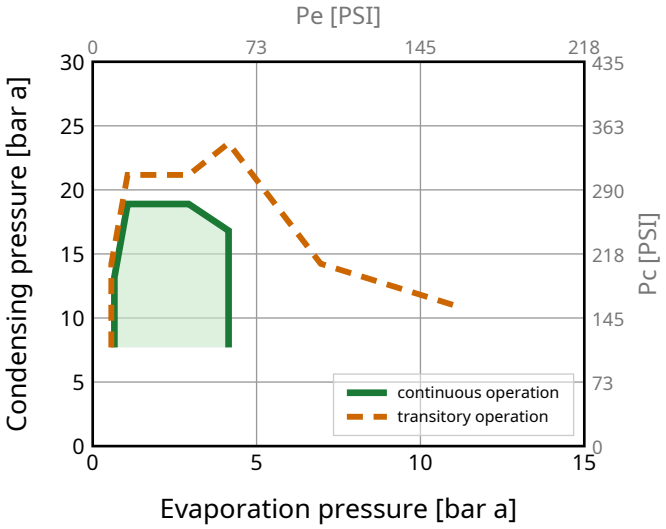


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model

NLE12.6MFT Configuration 2

Sales code:

105G6388

Standard Conditions

R134a, 220 V/50 Hz, eRSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**737**	2516	634	**1.98**	6.76	372	2.43	16.05	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**567**	1935	488	**1.65**	5.63	344	2.34	13.67	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**658**	2246	566	**2.00**	6.82	329	2.29	15.35	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**712**	2430	613	**1.97**	6.73	361	2.40	17.50	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**682**	2327	586	**2.07**	7.07	329	2.29	14.89	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**312**	1065	268	**1.38**	4.72	226	2.02	6.75	**opt MBP 2**

Performance Tables

R134a, 220 V/50 Hz, eRSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**197**	673	170	**1.12**	3.81	176	1.97	4.25
-30	-22	**242**	824	208	**1.22**	4.15	198	1.98	5.21
-20	-4	**409**	1396	352	**1.59**	5.43	257	2.09	8.87
-10	14	**682**	2327	586	**2.07**	7.07	329	2.29	14.89
0	32	**1060**	3617	912	**2.60**	8.86	408	2.56	23.39
10	50	**1544**	5267	1327	**3.17**	10.81	487	2.85	34.55

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

-35	-31	**198**	676	170	**1.12**	3.81	178	1.98	4.70
-30	-22	**218**	745	188	**1.09**	3.73	200	1.99	5.19
-20	-4	**339**	1157	292	**1.29**	4.41	263	2.10	8.11
-10	14	**567**	1935	488	**1.65**	5.63	344	2.34	13.67
0	32	**902**	3077	776	**2.06**	7.04	437	2.66	21.99
10	50	**1344**	4584	1155	**2.51**	8.57	535	3.04	33.29

Model

NLE12.6MFT Configuration 3

Sales code:

105G6388

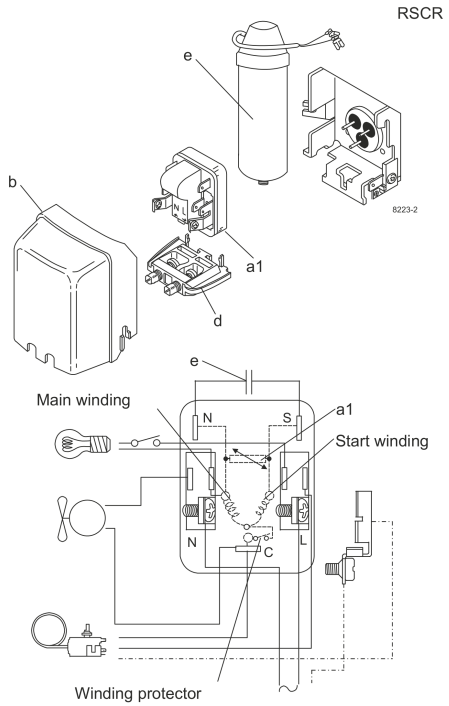
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**187-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.65 A**
RLA (rated load amps / 1s/ U(N))	**2.8 A**
Cut in current (U(N))	**13.65 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

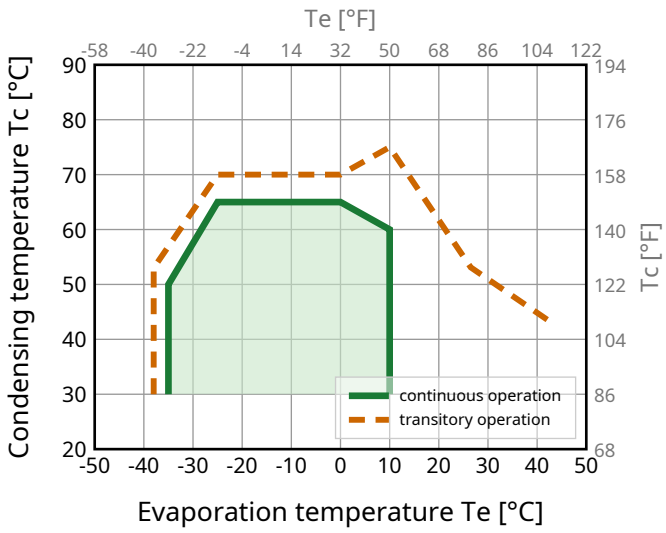
Electrical Accessories / Wiring Diagram

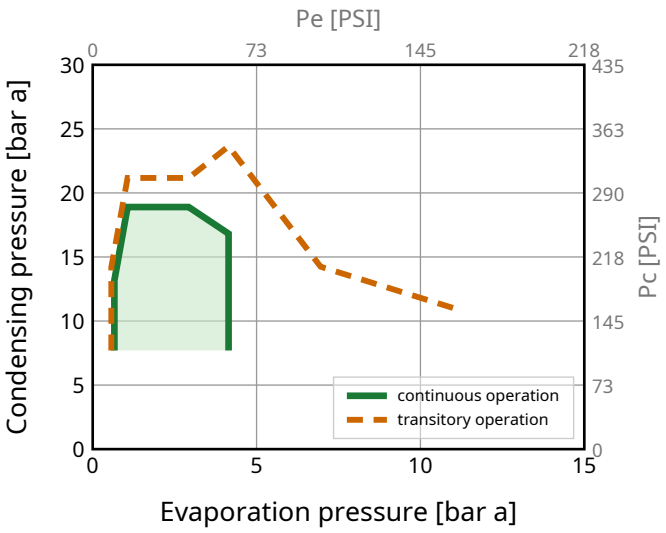


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE12.6MFT Configuration 3

Sales code:
105G6388

Standard Conditions

R134a, 220 V/50 Hz, eRSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**749**	2555	644	**2.07**	7.06	362	2.36	16.30	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**576**	1965	495	**1.72**	5.88	334	2.27	13.88	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**669**	2282	575	**2.09**	7.13	320	2.23	15.59	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**723**	2468	622	**2.06**	7.03	351	2.33	17.78	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**693**	2363	596	**2.16**	7.38	320	2.23	15.13	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**317**	1082	273	**1.45**	4.93	219	1.97	6.86	**opt MBP 2**

Performance Tables

R134a, 220 V/50 Hz, eRSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**200**	684	172	**1.17**	3.99	172	1.91	4.32
-30	-22	**245**	837	211	**1.27**	4.34	193	1.93	5.29
-20	-4	**416**	1418	357	**1.66**	5.67	250	2.03	9.01
-10	14	**693**	2363	596	**2.16**	7.38	320	2.23	15.13
0	32	**1077**	3674	926	**2.71**	9.26	397	2.48	23.75
10	50	**1568**	5349	1348	**3.31**	11.30	474	2.77	35.09

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

-35	-31	**201**	686	173	**1.17**	3.97	173	1.93	4.78
-30	-22	**222**	757	191	**1.14**	3.89	194	1.93	5.28
-20	-4	**344**	1175	296	**1.35**	4.60	255	2.05	8.24
-10	14	**576**	1965	495	**1.72**	5.88	334	2.27	13.88
0	32	**916**	3125	788	**2.16**	7.36	425	2.58	22.33
10	50	**1365**	4656	1174	**2.62**	8.96	520	2.95	33.81

Model
NLE12.6MFT Configuration 4

Sales code:
105G6388

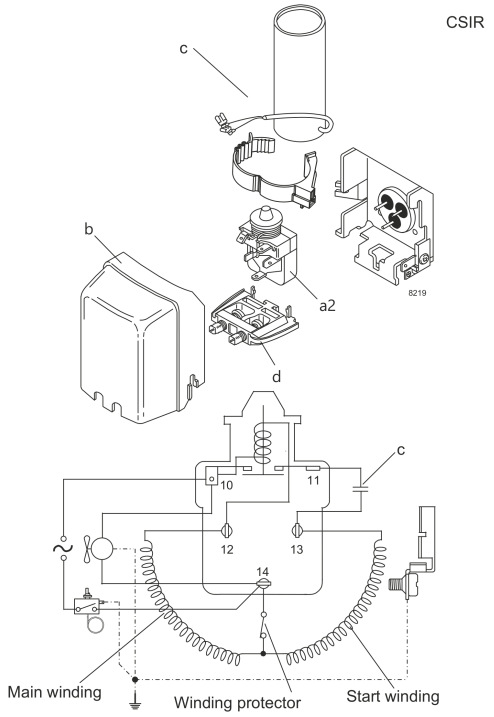
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**13.65 A**
RLA (rated load amps / 1s/ U(N))	**2.8 A**
Cut in current (U(N))	**13.65 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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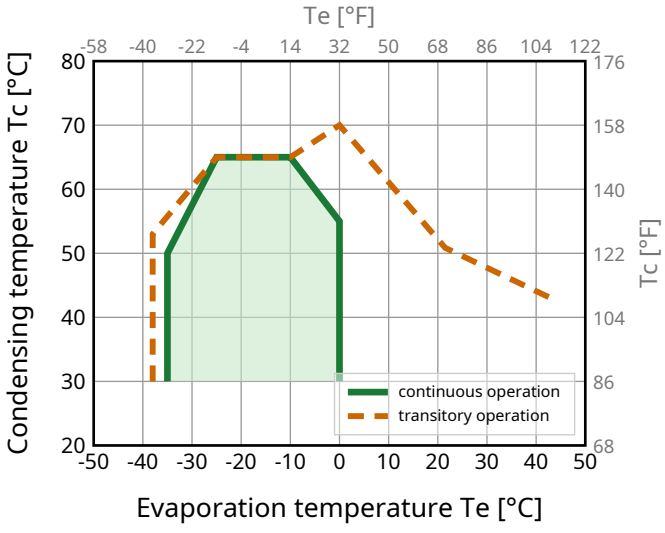
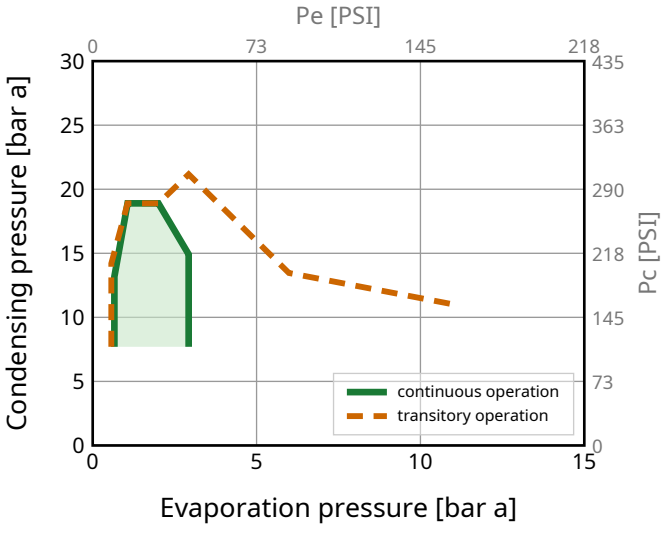
Components
a2 relay 117U6005
c start capacitor (80µF) 117U5015
b plastic cover 103N2010
d cord relief 103N1010

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE12.6MFT Configuration 4

Sales code:
105G6388

Standard Conditions

R134a, 220 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**888**	3031	764	**2.00**	6.82	444	2.90	19.34	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**683**	2330	587	**1.67**	5.68	410	2.79	16.47	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**793**	2706	682	**2.02**	6.89	393	2.73	18.50	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**858**	2928	738	**1.99**	6.79	431	2.86	21.09	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**822**	2803	706	**2.09**	7.13	393	2.73	17.94	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**376**	1283	323	**1.40**	4.77	269	2.41	8.13	**opt MBP 2**

Performance Tables

R134a, 220 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	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**238**	811	204	**1.13**	3.85	210	2.35	5.12
-30	-22	**291**	993	250	**1.23**	4.19	237	2.36	6.28
-20	-4	**493**	1682	424	**1.61**	5.48	307	2.50	10.69
-10	14	**822**	2803	706	**2.09**	7.13	393	2.73	17.94
0	32	**1277**	4357	1098	**2.62**	8.95	487	3.05	28.18
10	50	**1860**	6345	1599	**3.20**	10.92	581	3.40	41.62
15	59	**2198**	7501	1891	**3.52**	11.99	626	3.59	49.67

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

-35	-31	**239**	814	205	**1.13**	3.85	212	2.37	5.67
-30	-22	**263**	898	226	**1.10**	3.76	238	2.37	6.26
-20	-4	**409**	1394	351	**1.30**	4.45	313	2.51	9.77
-10	14	**683**	2330	587	**1.67**	5.68	410	2.79	16.47
0	32	**1086**	3707	934	**2.08**	7.11	521	3.17	26.49
10	50	**1619**	5523	1392	**2.54**	8.66	638	3.62	40.10
15	59	**1933**	6596	1663	**2.78**	9.48	696	3.86	48.39

Model

NLE12.6MFT Configuration 5

Sales code:

105G6388

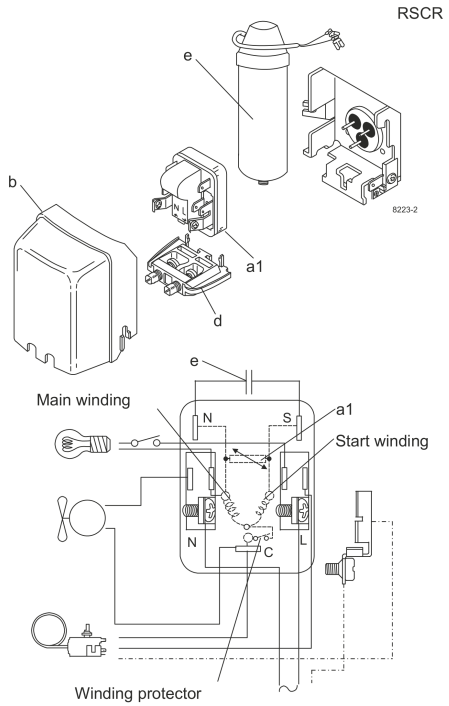
Configuration

Motor configuration	**eRSCR**
Power supply (nominal)	**220-240 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**LST**
Approvals	**VDE**
Starting device type	**e-PTC**
Run capacitor	**4 µF**
Start capacitor	**-/-**
LRA (locked rotor amps / 4s/ U(N))	**13.65 A**
RLA (rated load amps / 1s/ U(N))	**2.8 A**
Cut in current (U(N))	**13.65 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

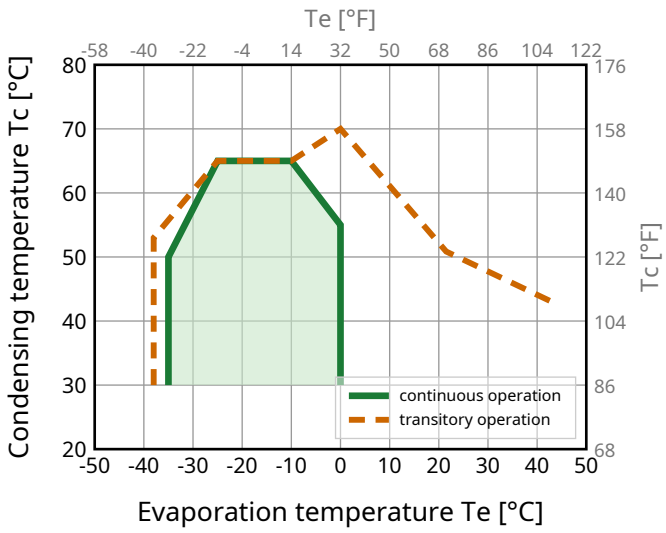
Electrical Accessories / Wiring Diagram

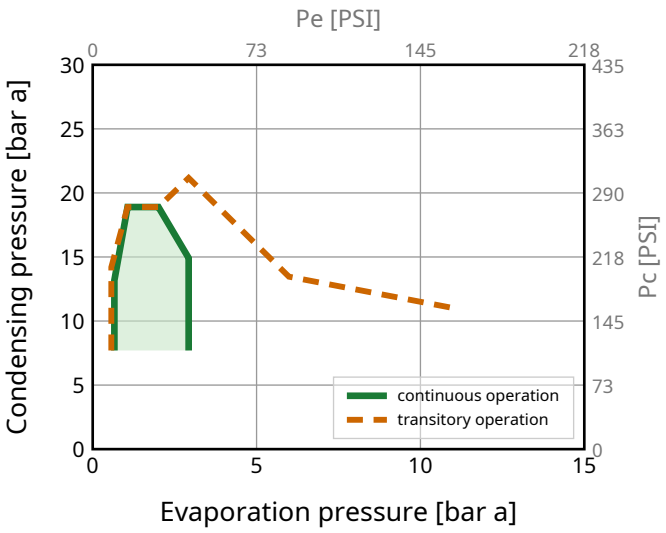


Components
a1 e-PTC starter (220V, 25Ohm, 4.8mm) 103N0050
e run capacitor (4µF, 4.8mm) 117-7119
b plastic cover 103N2010
d cord relief 103N1010
bracket for run capacitor 117-0300
screw M4x8mm 117-0301

Alternative components
b plastic cover 103N2011

Operation Pressure Range





Model
NLE12.6MFT Configuration 5

Sales code:
105G6388

Standard Conditions

R134a, 220 V/60 Hz, eRSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	**902**	3078	776	**2.09**	7.12	432	2.82	19.64	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**694**	2367	597	**1.74**	5.93	399	2.71	16.73	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**806**	2749	693	**2.11**	7.20	382	2.66	18.79	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**872**	2974	749	**2.08**	7.10	419	2.78	21.41	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**834**	2847	718	**2.19**	7.46	382	2.66	18.22	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**382**	1303	329	**1.46**	4.98	262	2.35	8.26	**opt MBP 2**

Performance Tables

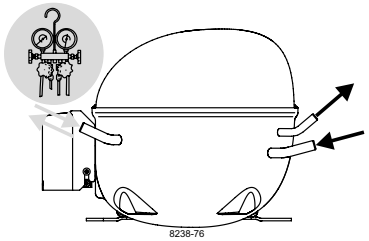
R134a, 220 V/60 Hz, eRSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**241**	824	208	**1.18**	4.03	205	2.28	5.20
-30	-22	**296**	1009	254	**1.28**	4.38	230	2.30	6.38
-20	-4	**501**	1708	431	**1.68**	5.73	298	2.43	10.85
-10	14	**834**	2847	718	**2.19**	7.46	382	2.66	18.22
0	32	**1297**	4426	1116	**2.74**	9.35	474	2.96	28.62
10	50	**1889**	6444	1624	**3.34**	11.41	565	3.31	42.27
15	59	**2233**	7618	1920	**3.67**	12.53	608	3.49	50.44

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

-35	-31	**242**	827	208	**1.18**	4.02	206	2.30	5.75
-30	-22	**267**	912	230	**1.15**	3.93	232	2.31	6.36
-20	-4	**415**	1416	357	**1.36**	4.65	305	2.44	9.93
-10	14	**694**	2367	597	**1.74**	5.93	399	2.71	16.73
0	32	**1103**	3765	949	**2.18**	7.43	507	3.08	26.91
10	50	**1644**	5609	1414	**2.65**	9.05	620	3.52	40.73
15	59	**1963**	6699	1689	**2.90**	9.90	677	3.76	49.15



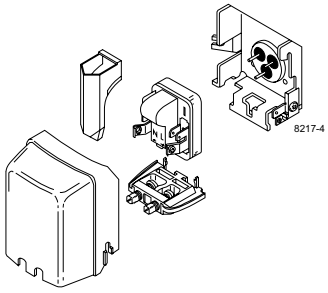
NL Compressors

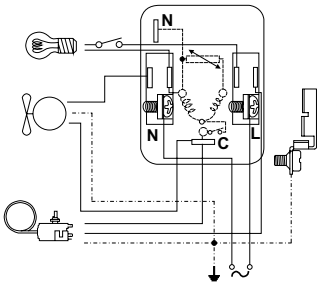
SECOP

Keep electrical equipment clear from oil, chemicals, and water

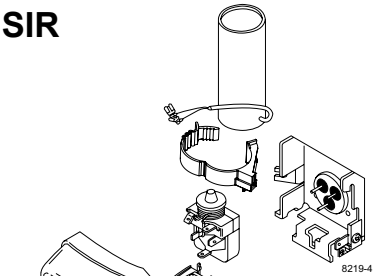
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

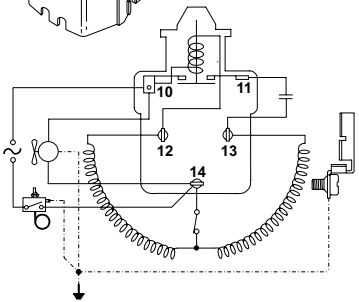
RSIR



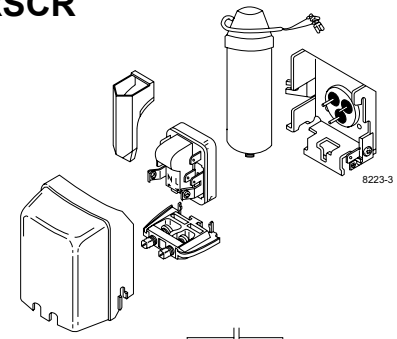


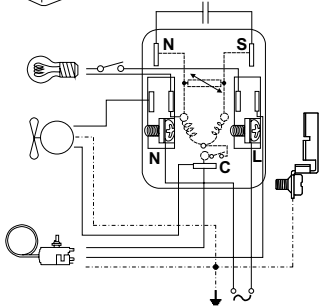
CSIR

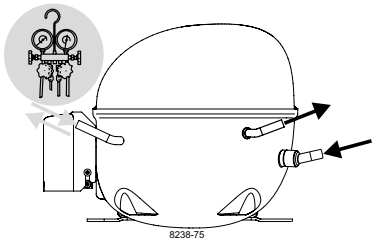




RSCR







NL Compressors

SECOP

Keep electrical equipment clear from oil, chemicals, and water

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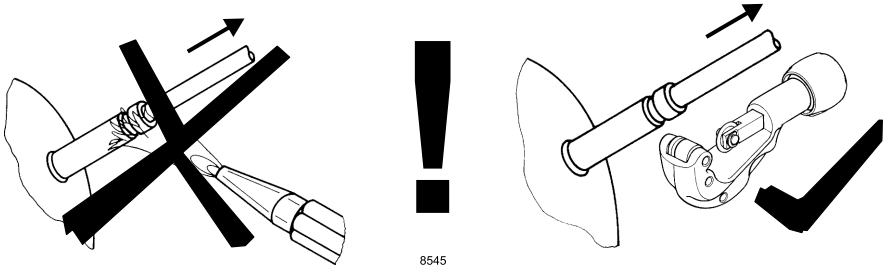
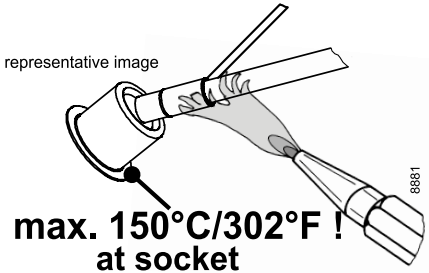
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Brazing on Suction Connectors (Direct Intake)

representative image



! max. 150°C/302°F ! at socket

brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
Brazing on Suction Connectors (Compressors with Direct Suction Intake)

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**