

ENGINEERING
TOMORROW

Danfoss

60Hz Catalogue

Danfoss **Light Commercial Refrigeration** Compressors D, U, L, P, X, S Ranges - **60Hz**

R134a | R404A | R507 | R600a | R290 | R22



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Compressor Ranges

D range



Features:

Very compact design, low weight, extra silent

Range:

2.40 to 4.03 cc

Refrigerants:

R134a, R290, R600a

Applications:

Water Coolers, Can Coolers, Bottle Coolers, Small Refrigerators and Freezers

27% more efficiency than L range, more compact: 12 mm shorter,
2.5 kg lighter, -10dB(A) quieter

Features:

Range:

5.50 to 10.60 cc

Refrigerants:

R134a, R290, R404A, R600a

Applications:

Ice Cream Freezers, Bottle Coolers, Chest coolers, Freezers, Refrigerated Display Counters, Display Cabinets

U range



L range



Features:

Highly efficient range with propane (R290) & isobutane (R600a)

Range:

4.00 to 10.70 cc

Refrigerants:

R134a, R404A, R507, R600a, R290, R22

Applications:

Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers, Heat Pump Systems

P range

Features:
High efficiency versions
Highly efficient range with propane (R290) & isobutane (R600a)

Range:
12.00 - 18.00 cc

Refrigerants:
R134a, R404A, R507, R600a, R290, R22

Applications:
Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers



X range



Features:

High reliability & efficiency. Optimized design to work under heavy duty operating conditions

Range:
16.00 to 23.00 cc

Refrigerants:
R134a, R404A, R507, R290, R407C, R22

Applications:
Large Freezers (vertical and chest), Blast Freezers, Ice Makers, Vending Machines, Display Cabinets, Display Islands, Soft Drink Dispensers

S range

Features:
Top capacity range, optimized design to reduce vibration

Range:
18.00 to 34.42 cc

Refrigerants:
R134a, R404A, R407C, R507, R22

Applications:
Large Freezers (vertical and chest), Soft Drink Dispensers, Blast Freezers, Air Dryers, Ice Makers, Air Conditioning, Vending Machines, Heat Pumps, Display Cabinets and Islands



The Green Cooling Ranges

The most extended range of compressors for sustainable refrigeration in terms of energy consumption reduction.

The advanced design of the Green Cooling Ranges allows efficiency improvement providing energy consumption reductions up to 45% compared to standard versions; consequently, lower CO₂ emissions to the atmosphere.

The Green Cooling Ranges comprise **High Efficiency, Natural Refrigerants and Variable Speed Compressors.**

The Green Cooling range improves the compressor COP between **20%** and **30%** in comparison with standard ranges.



GREEN COOLING

The major environmental benefits are obtained combining the use of the R290 with the design criteria of high efficiency ranges.

These compressor models, in their more advanced version, can save up to 50% of energy when compared with standard efficiency series of R404A thanks to its high-efficiency mechanics, its advanced motor winding design and the optional running capacitor concept.

High Efficiency Ranges

The High Efficiency models reduce energy consumption of commercial refrigeration appliances between 10% and 30% with respect to standard ranges. Most High-Efficiency models are equipped with electric motors, designed with the "optional run capacitor" concept, that is, the compressor can work with or without a running capacitor (CSR/CSIR), offering different levels of efficiency with the same compressor. The new U range offers the highest level of efficiency with propane in the market today.

Natural Refrigerants

Natural refrigerants like propane (R290) and isobutane (R600a) are being gradually introduced in commercial appliances, not only due to the replacement of H-CFC's and HFC's refrigerants which have high impact on environment, but also because it is more efficient in terms of performance and applications' energy consumption.

Refrigerant propane has no direct contribution to global warming and its energy consumption is between 10% to 15% lower than a similar application with R404A. The R290 compressors offer a higher cooling capacity and COP allowing energy-saving consumption with smaller displacement.



AC Variable Speed Compressors

The Variable speed compressor offers the lowest energy consumption by means of electronically self-adjusting the compressor's speed to the appliance's cooling needs, while improving COP up to 50%. Using Smart Speed® software with communication capabilities, this compressor automatically achieves the best efficiency for the appliance while dynamically adapting the compressor's speed to the needed cooling capacity.



Variable speed compressors - AC

Features:

High Efficiency, Flexible Speed Drive
Drop-in Configuration
External Controlling
200-240 V / 50-60Hz
110-127V / 50-60Hz

Models:

GLT99FSN, NPT12FSC, NLT60FSN

Refrigerant:

R290, R134a

DC Variable Speed Compressors for Mobile Applications

The mobile cooling solutions for transportation vehicles are designed to operate from a 12-42V DC power supply. These compressors are designed for mobile DC applications in boats, trucks, private cars, medical appliances in ambulances, truck cabin air conditioners, among others.

The GD30FDC model is the solution for users requiring comfort and reliability while traveling where a DC powered refrigerator is utilized.

The GLT80TDC is the answer to the needs of users requiring comfort and reliability while traveling, either on holidays, at work or in any other circumstance where a DC powered air conditioner is utilized.

The GD30FDC and GLT80TDC are designed to operate from a low voltage DC power supply to operate silently, efficiently and reliably even when tilted up to 30° / 20° respectively, working with refrigerant R134a.



Variable Speed Compressors - DC

Features:

DC compressors for mobile applications, exceptionally silent
GD30FDC VDE & UL approved
Ready to work under heavy duty operating conditions
12-42V DC / 24-42V DC / 48-56V DC

Models:

GD30FDC, GLT80TDC.

Refrigerant:

R134a, R600a

The electronic driver of all Variable Speed Compressors include the Smart Speed® programming option, which is a plug-in system for automatically self-adapting compressor speed to the current thermal load.

Labels and Approvals



Approvals



Directive compliance declarations



Flammable gases



Compressor Nomenclature

model

G L Y 6 0 D A a

G L Y 6 0 D A a

Indicates refrigerant. Not appearing in case of ranges for R22

- | | |
|-----------------------|------------------|
| G = R134a | N = R290 |
| M = R404A/R507 | H = R600a |

Indicates compressor range (overall design).

- | | | |
|---------------------------------------|---------------------------------------|-----------------------------------|
| D = 2.4 - 4cm ³ | L = 4.0 - 10.71cm ³ | X = 16 - 23cm ³ |
| U = 5.5 - 10.60cm ³ | P = 12 - 18cm ³ | S = 18 - 34cm ³ |

Indicates energy efficiency level. Not appearing in case of R22 ranges and for standard efficiency.

- M** = Medium
- Y** = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR
- T** = Top Efficiency - Run Capacitor RSCR or CSR

Indicates approximate compressor displacement under the following rule:

- D / U / L** ranges 10 times the approx. displacement in cm³/rev (GL80 AF -> approx 8 cm³/rev)
- P / X / S** ranges The approx. displacement in cm³/rev (MX21TG -> approx 21 cm³/rev)

Indicates the starting torque, application type and compressor cooling:

- | | | |
|----------------------------|--|-------------------------------------|
| A = LBP - LST - S | G = LBP - LST - S (RSCR only) | T = HMBP - HST - FAN |
| B = LBP - LST - OC | L = LBP - HST - Fan (Current Relay) | (CSR versions with Potential Relay) |
| C = LBP - LST - FAN | M = HMBP - LST/HST - S/FAN | U = AC - LST/HST - FAN |
| D = LBP - HST - S | N = MBP - LST/HST - S/FAN | Y = VHBP - HST - Fan |
| E = LBP - HST - OC | P = HMBP - LST - FAN | |
| F = LBP - HST - FAN | R = HMBP - HST - FAN | |
| | (CSR versions with Current Relay) | |

Indicates the rated voltage:

- | | | |
|---------------------------------------|---|-------------------------------------|
| A = 220-240V 50Hz | G = 200-220V 50Hz/220-230V 60Hz | T = 200-220V 50Hz |
| B = 220-240V 50Hz (old ranges) | J = 100V 50/60Hz | U = 208-230V 60Hz |
| C = 100V 50/60Hz (old ranges) | M = 115-127V 60Hz | 3 = 3 phase 400-440V 50/60Hz |
| D = 115V 60Hz | L/N = 200-220V 50Hz or 200-240V 50Hz | |
| E = 115V 60Hz (old ranges) | 220-230V 60Hz (122°F) | |
| F = 208-230V 60Hz (old ranges) | R = 115-127V 60Hz (old ranges) | |

Indicates a variant of the model that only affects the configuration of electrical components. Its meaning may vary from model to model. It does not appear on the compressor label but it is used for ordering, invoicing and internal processes.

Examples:

1. In high-efficiency compressors ("Y" series, i.e.: GPY12LA or MLY80RD), the letters "a" or "b" may indicate the type of electrical connection corresponding to the electrical accessories supplied with the compressor.

- a** = no use of running capacitor
- b** = use of running capacitor

2. In HMBP models of D range, R134a refrigerant (i.e.: GD30MB or GD40MB) it indicates the electrical accessories corresponding to the following situations:

- a** = static cooling and without starting capacitor
- b** = fan cooling and without starting capacitor
- c** = static cooling and with starting capacitor
- d** = fan cooling and with starting capacitor

Voltage

The standards consider the voltage variation of the network to be within +/- 6% of its rated value, nevertheless the motors' design is able to work within -15% of the lowest rating and +10% of the highest rating.

Compressor Voltage Versions		
Voltage version	Compressor rating	Voltage operative range
A or B	220-240 V 50 Hz	187-264 V 50 Hz
C or J	100 V 50/60 Hz	85-110 V 50/60 Hz
D or E	115 V 60 Hz	98-127 V 60 Hz
G or F L or N	200- 220/220-230 V 50/60 Hz	170-242/187-253 V 50/60 Hz
M or R	115-127V 60Hz	98-140V 60Hz
T	200-220V 50Hz	187-242V 50Hz
U	208-230V 60Hz	177-253V 60Hz
3	400/440 V 50/60 Hz 3ph	340-440/374-484 V 50/60 Hz

Applications

Based on the characteristics of the system for which the compressor is intended, compressors are classified in different groups of application.

Low Back Pressure (LBP) Compressors.

Evaporating temperature range: -31°F to +14°F [-35°C to -10°C] (down to -40°F [-40°C] for refrigerant R404A).

Rating condition: -13°F [-25°C] (CECOMAF) or -10°F [-23.3°C] (ASHRAE).

Low-Medium Back Pressure (LMBP) Compressors.

Evaporating temperature range: -31°F to +23°F [-35°C to -5°C]

Rating condition: -13°F [-25°C] (CECOMAF) or -10°F [-23.3°C] (ASHRAE).

Medium Back Pressure (MBP) Compressors.

Evaporating temperature range: -10°F to 32°F [-25°C to 0°C]

High Medium Back Pressure (HMBP) Compressors.

Evaporating temperature range: -13°F to +50°F [-25°C to +10°C].

Rating condition: +41°F [+5°C] (CECOMAF) or +45°F [+7.2°C] (ASHRAE).

High Back Pressure (HBP) Compressors.

Evaporating temperature range: +5°F to +50°F [-15°C to +10°C].

Rating condition: +41°F [+5°C] (CECOMAF) or +45°F [+7.2°C] (ASHRAE).

Very High Back Pressure (VHBP) Compressors.

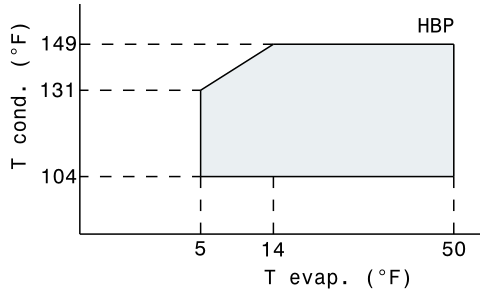
Evaporating temperature range +32°F to +77°F [0°C to +25°C] with condensing temperature up to +167°F [+75°C].

The rating condition is defined by an internal standard: Te = +50°F [+10°C].

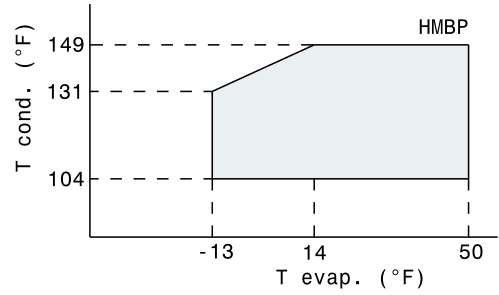
Operating Envelope

In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

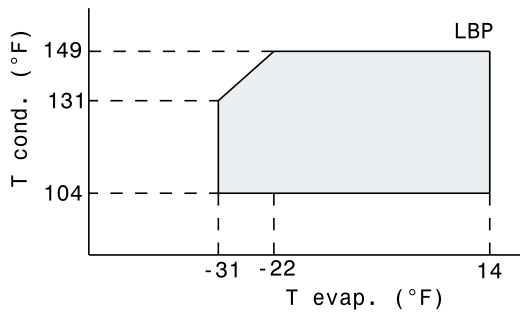
R134a - HBP



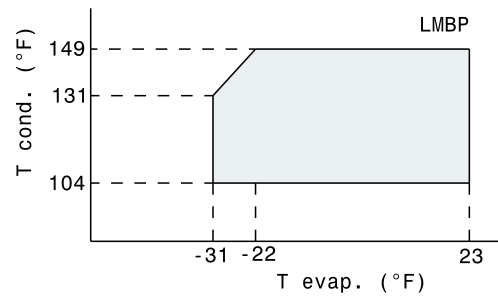
R134a HMBP



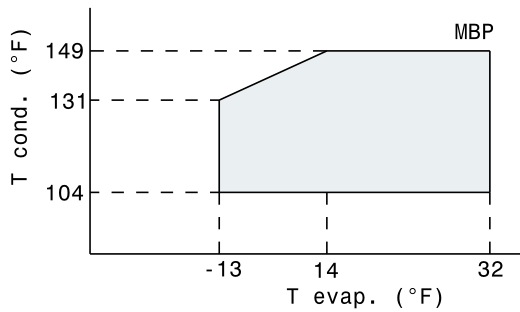
R134a LBP



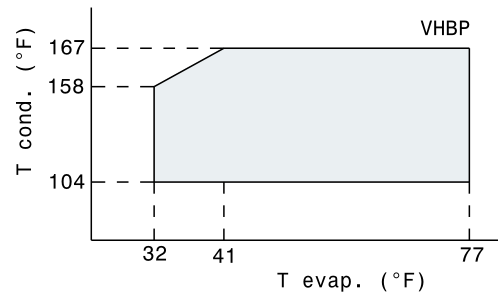
R134a LMBP



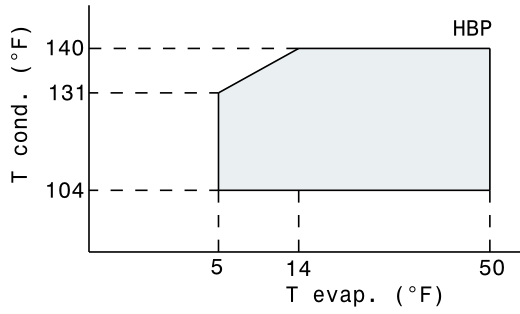
R134a MBP



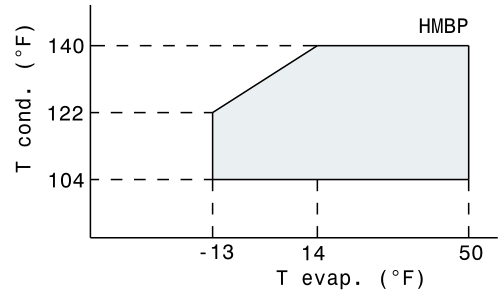
R134a VHBP



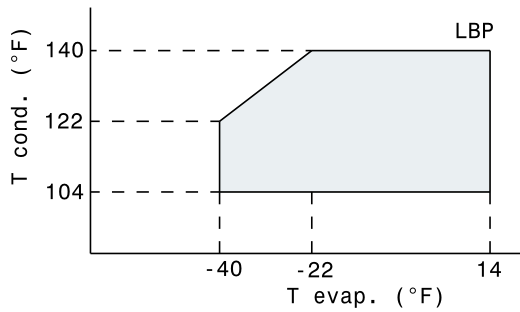
R290 HBP



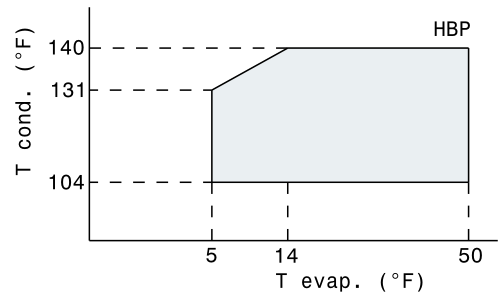
R290 HMBP



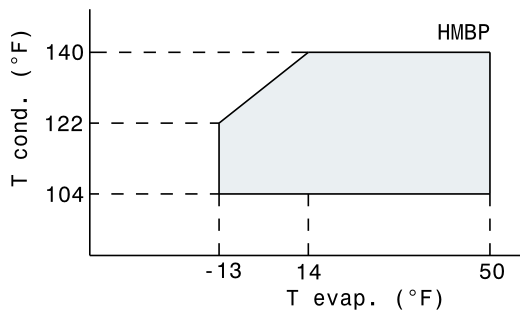
R290 LBP



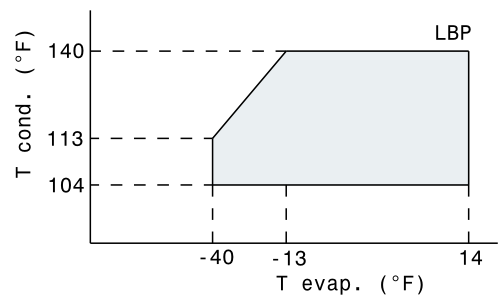
R404A HBP



R404A HMBP

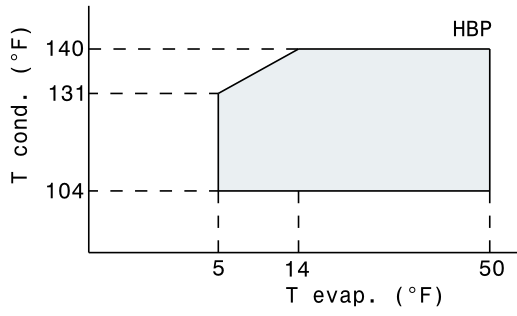


R404A LBP

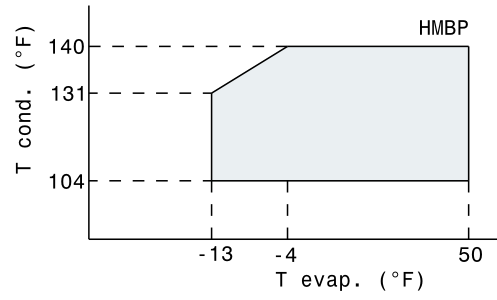


Danfoss Light Commercial Refrigeration Compressors

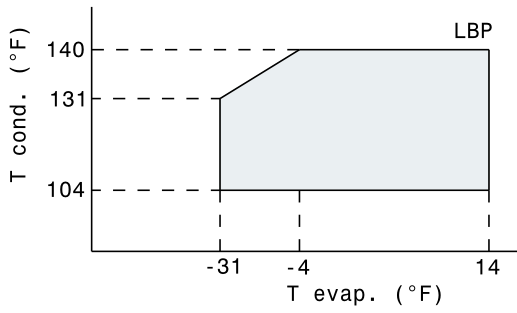
R600a HBP



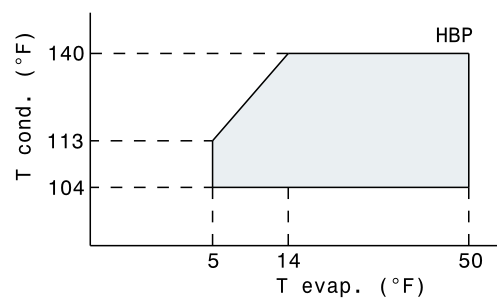
R600a HMBP



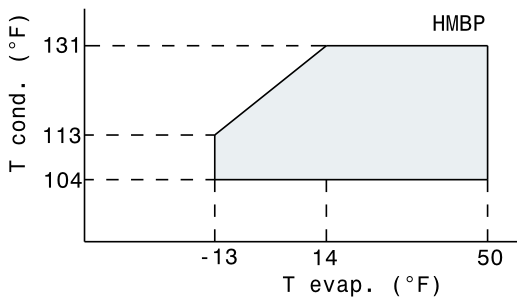
R600a LBP



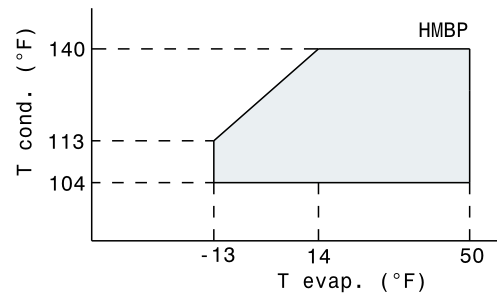
R22 HBP



R22 HMBP - L Range



R22 HMBP - S Range





Types of Electrical Motors

RSIR (Resistance Start-Induction Run)

LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.

CSIR (Capacitor Start-Induction Run)

HST motor. With starting capacitor. Auxiliary winding is disconnected after start up. Standard efficiency.

RSCR (Resistance Start-Capacitor Run)

LST motor. With running capacitor. Auxiliary winding remains connected after start up. Used for high efficiency in small capacity compressors (particularly in household refrigeration)

CSR (Capacitor Start and Run)

HST motor. Two capacitors (starting and running). Auxiliary winding remains connected after start up. Used for high efficiency in small compressors and for size reduced size motors in compressors with comparatively large displacements.

Single phase motor classification

Capacitor type	HST With starting capacitor		LST Without starting capacitor	
With Running capacitor	Motor type: CSR	Starting device: Current relay + NTC for L, P and X ranges Potential relay for P, X & S ranges	Motor type: RSCR	Starting device: PTC
Without Running capacitor	Motor type: CSIR	Starting device: Current Relay	Motor type: RSIR	Starting device: Current Relay or PTC

Type of starting device

Current relay – (electromechanical). RSIR/CSIR motors and CSR low/medium-power motors with NTC (the NTC is connected in series with the starting capacitor and the main propose is to reduce the current peaks in the relay contacts)

Potential relay – (electromechanical). CSR high-power motors.

PTC – (Positive Temperature Coefficient), the resistance increases with the temperature. Device only with RSIR or RSCR motors in the D, L and P ranges.

NTC – (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

Type of torque

LST – Low Starting Torque – Systems with capillary tube or balanced pressures at start up.

HST – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

How to read this Catalogue

Compressors

Indicates Green Cooling models	R134a (*)		LBP LMBP			60Hz		Voltage	Application	Compressor Cooling	REFRIGERATION CAPACITY								WEIGHT	DESIGN	
	COMPRESSOR MODEL	DANFOSS CODE (#)	DISPLACEMENT		POWER	MOTOR TYPE	VOLTAGE				FREQUENCY	ASHRAE conditions Condensing temperature = 131°F (55°C)									
			cu.in.	cm ³								-10°F (-23.3°C)				+14°F (-10°C)					
												Cooling Capacity		COP	EER	Btu/h					
												Btu/h	W			W/W	Btu/Wh	Btu/h			W
GD24ADa	123B1150	0.148	2.44	1/20	RSIR	115V	60 Hz	LBP	Static	107	31	188	55	0.70	2.38	421	123	11.24	Db		
GD24ADb	123B1151	0.148	2.44	1/20	CSIR	115V	60 Hz	LBP	Static	107	31	188	55	0.70	2.38	421	123	11.24	Db		
GD36AD	123B1152	0.218	3.62	1/12	RSIR	115V	60 Hz	LBP	Static	198	58	314	92	0.85	2.91	619	181	14.77	Db		
GL45ADa	123B1153	0.278	4.56	1/8	RSIR	115V	60 Hz	LBP	Static	274	80	444	130	1.05	3.58	905	265	17.86	La		
GL45ADb	123B1154	0.278	4.56	1/8	CSIR	115V	60 Hz	LBP	Static	274	80	444	130	1.05	3.58	905	265	17.86	La		
GL60ADa	123B1155	0.364	5.98	1/6	RSIR	115V	60 Hz	LBP	Static	397	116	611	179	1.10	3.75	1222	358	20.06	Lb		
GL60ADb	123B1156	0.364	5.98	1/6	CSIR	115V	60 Hz	LBP	Static	397	116	611	179	1.10	3.75	1222	358	20.06	Lb		
GLY60NR(**)	123B1301	0.366	6.00	1/5	CSIR	115-127V	60Hz	LMBP	Fan	473	139	734	215	1.49	5.08	1491	437	19.84	Ub		
GLY70NR	123B1302	0.409	6.70	1/5	CSIR	115-127V	60Hz	LMBP	Fan	496	145	770	226	1.49	5.08	1564	458	20.50	Ub		
GL80ADa	123B1157	0.493	8.10	1/5	RSIR	115V	60 Hz	LBP	Static	512	150	795	233	1.13	3.85	1615	473	21.61	Lc		
GL80ADb	123B1158	0.493	8.10	1/5	CSIR	115V	60 Hz	LBP	Static	512	150	795	233	1.13	3.85	1615	473	21.61	Lc		
GLY80NR(**)	123B1303	0.493	8.10	1/4	CSIR	115-127V	60Hz	LMBP	Fan	612	179	972	285	1.49	5.08	1905	558	21.16	Ub		
GL90ADa	123B1159	0.553	9.09	1/4	RSIR	115V	60 Hz	LBP	Static	579	170	887	260	1.14	3.89	1770	519	23.15	Ld		
GL90ADb	123B1160	0.553	9.09	1/4	CSIR	115V	60 Hz	LBP	Static	579	170	887	260	1.14	3.89	1770	519	23.15	Ld		
GL99ADa	123B1161	0.606	9.95	1/4	RISR	115V	60 Hz	LBP	Static	623	183	945	277	1.21	4.12	1849	542	23.81	Ld		
GL99ADb	123B1162	0.606	9.95	1/4	CSIR	115V	60 Hz	LBP	Static	623	183	945	277	1.21	4.12	1849	542	23.81	Ld		
GLY11NR(**)	123B1306	0.647	10.60	3/8	CSIR	115-127V	60Hz	LMBP	Fan	798	234	1210	355	1.42	4.85	2368	694	21.83	Uc		
GLY12NRa	123B1304	0.653	10.70	3/8	CSIR	115-127V	60Hz	LMBP	Fan	733	215	1112	326	1.34	4.57	2176	638	24.69	Ld		
GLY12NRb	123B1305	0.653	10.70	3/8	CSR	115-127V	60Hz	LMBP	Fan	733	215	1112	326	1.42	4.85	2176	638	24.69	Ld		
GP14FE	123B1163	0.863	14.17	3/8	CSIR	115V	60 Hz	LBP	Fan	778	228	1249	366	0.94	3.21	2508	735	28.44	Pd		
GP16FE	123B1164	0.984	16.15	3/8	CSIR	115V	60 Hz	LBP	Fan	877	257	1433	420	1.00	3.42	2829	829	28.44	Pd		
GD30AG	123B1103	0.186	3.08	1/12	RSIR	208-230 V	60 Hz	LBP	Static	167	49	270	79	0.88	3.01	548	160	13.00	Dc		
GD36AFa	123B1105	0.218	3.62	1/12	RSIR	230 V	60 Hz	LBP	Static	198	58	314	92	0.86	2.94	619	181	13.00	Dc		
GD36AFb	123B1106	0.218	3.62	1/12	CSIR	230 V	60 Hz	LBP	Static	198	58	314	92	0.86	2.94	619	181	13.00	Dc		
GD40AF	123B1108	0.246	4.06	1/10	RSIR	208-230 V	60 Hz	LBP	Static	230	67	358	105	0.91	3.11	722	212	14.99	Dd		
GL45ANa	123B1113	0.278	4.56	1/8	RSIR	208-230 V	60 Hz	LBP	Static	274	80	433	127	1.09	3.73	897	263	18.52	Lb		
GL60ANa	123B1118	0.364	5.98	1/6	RSIR	208-230 V	60 Hz	LBP	Static	452	133	604	177	1.15	3.91	1198	351	20.06	Lc		
GL60ANb	123B1119	0.364	5.98	1/6	CSIR	208-230 V	60 Hz	LBP	Fan	452	133	604	177	1.15	3.91	1198	351	20.06	Lc		
GL60ANc	123B1120	0.364	5.98	1/6	CSIR	208-230 V	60 Hz	LBP	Static	452	133	604	177	1.15	3.91	1198	351	20.06	Lc		
GL80ANa	123B1125	0.493	8.10	1/5	RSIR	208-230 V	60 Hz	LBP	Static	520	152	826	242	1.19	4.07	1619	475	21.61	Ld		
GL80ANb	123B1126	0.493	8.10	1/5	CSIR	208-230 V	60 Hz	LBP	Fan	520	152	826	242	1.19	4.07	1619	475	21.61	Ld		
GL80ANc	123B1127	0.493	8.10	1/5	CSIR	208-230 V	60 Hz	LBP	Static	520	152	826	242	1.19	4.07	1619	475	21.61	Ld		
GL90ANa	123B1132	0.553	9.09	1/4	RISR	208-230 V	60 Hz	LBP	Static	564	165	863	253	1.20	4.10	1774	520	22.93	Ld		
GL90ANb	123B1133	0.553	9.09	1/4	CSIR	208-230 V	60 Hz	LBP	Fan	564	165	863	253	1.20	4.10	1774	520	22.93	Ld		
GL90ANc	123B1134	0.553	9.09	1/4	CSIR	208-230 V	60 Hz	LBP	Static	564	165	863	253	1.20	4.10	1774	520	22.93	Ld		
GP14CG	123B1142	0.863	14.17	3/8	RSIR	208-230 V	60 Hz	LBP	Fan	758	222	1231	361	1.18	4.03	2480	727	25.35	Pc		

R134a

R404A/R507

R22

R290

R600a



Danfoss Light Commercial Refrigeration Compressors

R134a (*) LBP | LMBP

COMPRESSOR MODEL	DANFOSS CODE (†)	DISPLACEMENT		POWER	MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		-22°F (-30°C)		-10°F (-23.3°C)				+14°F (-10°C)										
				Cooling Capacity		COP	EER											
		Btu/h	W	Btu/h	W	W/W	Btu/Wh	Btu/h	W	lbs								
GD24ADa	123B1150	0.148	2.44	1/20	RSIR	115V 60 Hz	LBP	Static	107	31	188	55	0.70	2.38	421	123	11.24	Db
GD24ADb	123B1151	0.148	2.44	1/20	CSIR	115V 60 Hz	LBP	Static	107	31	188	55	0.70	2.38	421	123	11.24	Db
GD36AD	123B1152	0.218	3.62	1/12	RSIR	115V 60 Hz	LBP	Static	198	58	314	92	0.85	2.91	619	181	14.77	Db
GL45ADa	123B1153	0.278	4.56	1/8	RSIR	115V 60 Hz	LBP	Static	274	80	444	130	1.05	3.58	905	265	17.86	La
GL45ADb	123B1154	0.278	4.56	1/8	CSIR	115V 60 Hz	LBP	Static	274	80	444	130	1.05	3.58	905	265	17.86	La
GL60ADa	123B1155	0.364	5.98	1/6	RSIR	115V 60 Hz	LBP	Static	397	116	611	179	1.10	3.75	1222	358	20.06	Lb
GL60ADb	123B1156	0.364	5.98	1/6	CSIR	115V 60 Hz	LBP	Static	397	116	611	179	1.10	3.75	1222	358	20.06	Lb
GUY60NR (**)	123B1301	0.366	6.00	1/5	CSIR	115-127V 60Hz	LMBP	Fan	473	139	734	215	1.49	5.08	1491	437	19.84	Ub
GUY70NR	123B1302	0.409	6.70	1/5	CSIR	115-127V 60Hz	LMBP	Fan	496	145	770	226	1.49	5.08	1564	458	20.50	Ub
GL80ADa	123B1157	0.493	8.10	1/5	RSIR	115V 60 Hz	LBP	Static	512	150	795	233	1.13	3.85	1615	473	21.61	Lc
GL80ADb	123B1158	0.493	8.10	1/5	CSIR	115V 60 Hz	LBP	Static	512	150	795	233	1.13	3.85	1615	473	21.61	Lc
GUY80NR (**)	123B1303	0.493	8.10	1/4	CSIR	115-127V 60Hz	LMBP	Fan	612	179	972	285	1.49	5.08	1905	558	21.16	Ub
GL90ADa	123B1159	0.553	9.09	1/4	RSIR	115V 60 Hz	LBP	Static	579	170	887	260	1.14	3.89	1770	519	23.15	Ld
GL90ADb	123B1160	0.553	9.09	1/4	CSIR	115V 60 Hz	LBP	Static	579	170	887	260	1.14	3.89	1770	519	23.15	Ld
GL99ADa	123B1161	0.606	9.95	1/4	RISR	115V 60 Hz	LBP	Static	623	183	945	277	1.21	4.12	1849	542	23.81	Ld
GL99ADb	123B1162	0.606	9.95	1/4	CSIR	115V 60 Hz	LBP	Static	623	183	945	277	1.21	4.12	1849	542	23.81	Ld
GUY11NR (**)	123B1306	0.647	10.60	3/8	CSIR	115-127V 60Hz	LMBP	Fan	798	234	1210	355	1.42	4.85	2368	694	21.83	Uc
GLY12NRa	123B1304	0.653	10.70	3/8	CSIR	115-127V 60Hz	LMBP	Fan	733	215	1112	326	1.34	4.57	2176	638	24.69	Ld
GLY12NRb	123B1305	0.653	10.70	3/8	CSR	115-127V 60Hz	LMBP	Fan	733	215	1112	326	1.42	4.85	2176	638	24.69	Ld
GP14FE	123B1163	0.863	14.17	3/8	CSIR	115V 60 Hz	LBP	Fan	778	228	1249	366	0.94	3.21	2508	735	28.44	Pd
GP16FE	123B1164	0.984	16.15	3/8	CSIR	115V 60 Hz	LBP	Fan	877	257	1433	420	1.00	3.42	2829	829	28.44	Pd
GD30AG	123B1103	0.186	3.08	1/12	RSIR	208-230 V 60 Hz	LBP	Static	167	49	270	79	0.88	3.01	548	160	13.00	Dc
GD36AFa	123B1105	0.218	3.62	1/12	RSIR	230 V 60 Hz	LBP	Static	198	58	314	92	0.86	2.94	619	181	13.00	Dc
GD36AFb	123B1106	0.218	3.62	1/12	CSIR	230 V 60 Hz	LBP	Static	198	58	314	92	0.86	2.94	619	181	13.00	Dc
GD40AF	123B1108	0.246	4.06	1/10	RSIR	208-230 V 60 Hz	LBP	Static	230	67	358	105	0.91	3.11	722	212	14.99	Dd
GL45ANa	123B1113	0.278	4.56	1/8	RSIR	208-230 V 60 Hz	LBP	Static	274	80	433	127	1.09	3.73	897	263	18.52	Lb
GL60ANa	123B1118	0.364	5.98	1/6	RSIR	208-230 V 60 Hz	LBP	Static	452	133	604	177	1.15	3.91	1198	351	20.06	Lc
GL60ANb	123B1119	0.364	5.98	1/6	CSIR	208-230 V 60 Hz	LBP	Fan	452	133	604	177	1.15	3.91	1198	351	20.06	Lc
GL60ANc	123B1120	0.364	5.98	1/6	CSIR	208-230 V 60 Hz	LBP	Static	452	133	604	177	1.15	3.91	1198	351	20.06	Lc
GL80ANa	123B1125	0.493	8.10	1/5	RSIR	208-230 V 60 Hz	LBP	Static	520	152	826	242	1.19	4.07	1619	475	21.61	Ld
GL80ANb	123B1126	0.493	8.10	1/5	CSIR	208-230 V 60 Hz	LBP	Fan	520	152	826	242	1.19	4.07	1619	475	21.61	Ld
GL80ANc	123B1127	0.493	8.10	1/5	CSIR	208-230 V 60 Hz	LBP	Static	520	152	826	242	1.19	4.07	1619	475	21.61	Ld
GL90ANa	123B1132	0.553	9.09	1/4	RISR	208-230 V 60 Hz	LBP	Static	564	165	863	253	1.20	4.10	1774	520	22.93	Ld
GL90ANb	123B1133	0.553	9.09	1/4	CSIR	208-230 V 60 Hz	LBP	Fan	564	165	863	253	1.20	4.10	1774	520	22.93	Ld
GL90ANc	123B1134	0.553	9.09	1/4	CSIR	208-230 V 60 Hz	LBP	Static	564	165	863	253	1.20	4.10	1774	520	22.93	Ld
GP14CG	123B1142	0.863	14.17	3/8	RSIR	208-230 V 60 Hz	LBP	Fan	758	222	1231	361	1.18	4.03	2480	727	25.35	Pc

R134a (*) MBP

COMPRESSOR MODEL	DANFOSS CODE (†)	DISPLACEMENT		POWER	MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		-4°F (-20°C)		+14°F (-10°C)				+32°F (0°C)										
				Cooling Capacity		COP	EER											
		Btu/h	W	Btu/h	W	W/W	Btu/Wh	Btu/h	W	lbs								
GD24NEa	123B1401	0.148	2.44	1/14	RSIR	115 V 60 Hz	MBP	Static	218	64	369	108	0.99	3.37	651	191	11.24	Db
GD30NEa	123B1403	0.186	3.08	1/10	RSIR	115 V 60 Hz	MBP	Static	306	90	502	147	1.17	3.99	873	256	12.79	Dc
GD40NEa	123B1404	0.246	4.06	1/8	RSIR	115 V 60 Hz	MBP	Static	405	119	662	194	1.12	3.83	1143	335	13.23	Dd
GD24NG	123B1402	0.150	2.44	1/14	RSIR	208-230 V 60 Hz	MBP	Static	218	64	369	108	1.04	3.56	651	191	12.13	Db

Green Cooling Models

(*) Or HFO-1234yf

(**) Model under development

(†) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

Danfoss Light Commercial Refrigeration Compressors

R290 HMBP

COMPRESSOR MODEL	DANFOSS CODE (a)	DISPLACEMENT		POWER	MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		+14°F (-10°C)		+32°F (0°C)		+45°F (+7.2°C)												
		Btu/h	W	Btu/h	W	Cooling Capacity		COP	EER	lbs								
✓ NLY45RRa	123B3516	0.278	4.56	1/6	CSIR	115-127V 60 Hz	HMBP	Fan	1317	386	1952	572	2511	736	2.41	8.22	23.15	Lc
✓ NLY45RRb	123B3517	0.278	4.56	1/6	CSR	115-127V 60 Hz	HMBP	Fan	1317	386	1952	572	2511	736	2.61	8.91	23.15	Lc
✓ NLY60RRa	123B3518	0.364	5.98	1/5	CSIR	115-127V 60 Hz	HMBP	Fan	1790	525	2623	769	3353	983	2.43	8.29	23.81	Lc
✓ NLY60RRb	123B3519	0.364	5.98	1/5	CSR	115-127V 60 Hz	HMBP	Fan	1790	525	2623	769	3353	983	2.65	9.04	23.81	Lc
✓ NLY75RRa	123B3520	0.462	7.57	1/4	CSIR	115-127V 60 Hz	HMBP	Fan	2147	629	3297	966	4214	1235	2.50	8.53	22.05	Ld
✓ NLY75RRb	123B3521	0.462	7.57	1/4	CSR	115-127V 60 Hz	HMBP	Fan	2147	629	3297	966	4214	1235	2.77	9.45	22.05	Ld
✓ NLY80RRa	123B3522	0.494	8.10	1/4	CSIR	115-127V 60 Hz	HMBP	Fan	2325	682	3460	1014	4464	1308	2.45	8.36	24.47	Ld
✓ NLY80RRb	123B3523	0.494	8.10	1/4	CSR	115-127V 60 Hz	HMBP	Fan	2325	682	3460	1014	4464	1308	2.67	9.11	24.47	Ld
✓ NLY90RRa	123B3524	0.554	9.09	1/3	CSIR	115-127V 60 Hz	HMBP	Fan	2623	769	3904	1144	5036	1476	2.56	8.74	25.13	Ld
✓ NLY90RRb	123B3525	0.554	9.09	1/3	CSR	115-127V 60 Hz	HMBP	Fan	2623	769	3904	1144	5036	1476	2.76	9.42	25.13	Ld

R22 HMBP

COMPRESSOR MODEL	DANFOSS CODE (a)	DISPLACEMENT		POWER	MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		+14°F (-10°C)		+32°F (0°C)		+45°F (+7.2°C)												
		Btu/h	W	Btu/h	W	Cooling Capacity		COP	EER	lbs								
L76TN	123B5506	0.462	7.57	3/8	CSIR	115-127V 60 Hz	HMBP	Fan	1952	572	3024	886	4002	1173	2.02	6.91	22.49	Ld
L88TN	123B5508	0.541	8.86	3/8	CSIR	115-127V 60 Hz	HMBP	Fan	2333	684	3571	1047	4668	1368	1.90	6.48	23.37	Ld
P12TN	123B5510	0.735	12.05	1/2	CSR	115-127V 60 Hz	HBP	Fan	3048	893	4762	1396	6305	1848	2.20	7.51	27.12	Pd
L40TN	123B5522	0.247	4.05	1/6	CSIR	230V 60 Hz	HMBP	Fan	1074	315	1660	486	2191	642	1.89	6.44	20.94	Lc
L45TN	123B5501	0.275	4.50	1/5	CSIR	230V 60 Hz	HMBP	Fan	1214	356	1877	550	2477	726	1.91	6.52	20.94	Lc
L57TN	123B5503	0.347	5.68	1/5	CSIR	230V 60 Hz	HMBP	Fan	1470	431	2273	666	2999	879	1.91	6.53	20.94	Lc
L76TN	123B5506	0.462	7.57	3/8	CSIR	230V 60 Hz	HMBP	Fan	1952	572	3024	886	4002	1173	2.02	6.91	22.05	Ld
L88TN	123B5508	0.541	8.86	3/8	CSIR	230V 60 Hz	HMBP	Fan	2333	684	3571	1047	4668	1368	1.90	6.49	23.37	Ld
P12TN	123B5510	0.735	12.05	1/2	CSR	230V 60 Hz	HMBP	Fan	3048	893	4762	1396	6305	1848	2.23	7.60	26.46	Pd
X16TN	123B5711	0.980	16.03	5/8	CSR	230V 60 Hz	HBP	Fan	4294	1258	6468	1896	8250	2418	2.25	7.67	39.24	Xd
X18TN	123B5712	1.123	18.40	3/4	CSR	230V 60 Hz	HBP	Fan	4992	1463	7520	2204	9607	2816	2.41	8.21	39.24	Xd
S18TN	123B5513	1.100	18.10	3/4	CSR	230V 60 Hz	HMBP	Fan	4607	1350	7234	2120	9769	2863	2.29	7.81	48.06	Sc
S26TN	123B5516	1.582	25.93	1	CSR	230V 60 Hz	HMBP	Fan	6905	2024	10988	3220	14534	4259	2.36	8.06	50.04	Sd

✓ Green Cooling models

(a) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

Testing cycle conditions	
ASHRAE	
LBP (B)	HMBP (D)

Evaporating temperature °F	-10	45
Condensing temperature °F	131	131
Liquid temperature °F	90	115
Suction temperature °F	90	95
Ambient temperature °F	90	95

Danfoss Light Commercial Refrigeration Compressors

R134a HMBP • 50 | 60Hz

COMPRESSOR MODEL	DANFOSS CODE (a)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY (****)	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY						WEIGHT	DESIGN		
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		+14°F (-10°C)							+32°F (0°C)		+45°F (+7.2°C)		COP	EER				
											Cooling Capacity							
cu.in.	cm ³	Btu/h	W	Btu/h	W	Btu/h	W	W/W	Btu/Wh	lbs								
GLT99FSN	123B1991	0.607	9.95	ECM	220-240V 50/60Hz	HMBP	F	1800	1009	296	1639	480	2218	650	2.92	9.96	24.69	Lc
								2100	1187	348	1916	561	2576	755	2.98	10.17		
	2400	1350	396	2169	636	2904	851	2.92	9.96									
	3000	1662	487	2652	777	3538	1037	2.77	9.45									
	3600	1920	563	3119	914	4214	1235	2.62	8.94									
	123B1992				100-127V 50/60Hz (**)													

R134a LBP | MBP | HBP

COMPRESSOR MODEL	DANFOSS CODE (a)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY						WEIGHT	DESIGN		
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		-13°F (-25°C)							-10°F (-23.3°C)		+14°F (-10°C)							
											Cooling Capacity							
cu.in.	cm ³	Btu/h	W	Btu/h	W	Btu/h	W	W/W	Btu/Wh	Btu/h	W	lbs						
GD30FDC 12-42V	123B1901	0.183	3.00	ECM	12-24-42V DC	LBP MBP HBP	S / F	1500	99	29	111	32	1.24	4.23	237	70	11.90	Db
								2000	142	42	158	46	1.28	4.37	344	101		
								2500	178	52	198	58	1.26	4.30	435	128		
								3000	206	60	230	67	1.24	4.23	511	150		
								3500	226	66	253	74	1.22	4.16	570	167		
GD30FDC Dual (**)	123B1902	0.183	3.00	ECM	12-24-42V DC 100-240V 50/60Hz	LBP MBP HBP	S / F	1500	99	29	111	32	1.24	4.23	237	70	11.90	Db
								2000	142	42	158	46	1.28	4.37	344	101		
								2500	178	52	198	58	1.26	4.30	435	128		
								3000	206	60	230	67	1.24	4.23	511	150		
								3500	226	66	253	74	1.22	4.16	570	167		
GD30FDC 48-56V (**)	123B1904	0.183	3.00	ECM	48-56V DC	LBP MBP HBP	S / F	1500	99	29	111	32	1.24	4.23	237	70	11.90	Db
								2000	142	42	158	46	1.28	4.37	344	101		
								2500	178	52	198	58	1.26	4.30	435	128		
								3000	206	60	230	67	1.24	4.23	511	150		
								3500	226	66	253	74	1.22	4.16	570	167		

R134a LBP | MBP | HBP

COMPRESSOR MODEL	DANFOSS CODE (a)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY						WEIGHT	DESIGN		
									ASHRAE conditions Condensing temperature = 131°F (55°C)									
		+14°F (-10°C)							+32°F (0°C)		+45°F (+7.2°C)		COP	EER				
											Cooling Capacity							
cu.in.	cm ³	Btu/h	W	Btu/h	W	Btu/h	W	W/W	Btu/Wh	lbs								
GLT80TDC 24-42V	123B1902	0.494	8.10	ECM	24-42V DC	HMBP	F	1500	669	196	1082	317	1461	428	2.19	7.47	18.52	Lc
								2000	902	264	1457	427	1967	577	2.34	7.98		
								2500	1128	331	1809	530	2426	711	2.26	7.71		
								3000	1350	396	2153	631	2870	841	2.17	7.40		
								3500	1552	455	2474	725	3301	967	2.07	7.06		

(**) Model under development

(****) Different electronic driver depending on the voltage range

(a) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

Danfoss Light Commercial Refrigeration Compressors

R290 HMBP • 50 | 60 Hz

COMPRESSOR MODEL	DANFOSS CODE (α)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY (****)	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions									
									Condensing temperature = 131°F (55°C)									
									+14°F (-10°C)		+32°F (0°C)		+45°F (+7.2°C)					
rpm	Btu/h	W	Btu/h	W	Cooling Capacity		COP	EER	lbs									
NLT60FSN (**)	123B3991	0.365	5.98	ECM	220-240V 50/60Hz	HMBP	F	1800	858	251	1570	460	1844	541	3.08	10.51	26.68	Lc
	2100							1014	297	1843	540	2157	632	3.12	10.65			
	2400	1162	341	2100	615	2450	718	3.07	10.48									
	3000	1459	428	2621	768	3048	893	2.94	10.03									
	3600	1698	498	3098	908	3641	1067	2.85	9.72									
	123B3992**				100-127V 50/60Hz (**)													

R290 LBP • 50 | 60 Hz

COMPRESSOR MODEL	DANFOSS CODE (α)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY (****)	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions									
									Condensing temperature = 131°F (55°C)									
									-13°F (-25°C)		-10°F (-23.3°C)				+14°F (-10°C)			
rpm	Btu/h	W	Btu/h	W	Cooling Capacity		COP	EER	Btu/h	W	lbs							
NPT12FSC	123B3993	0.738	12.10	ECM	220-240V 50/60Hz	LBP	F	1800	1088	319	1187	348	1.52	5.19	2205	646	26.68	Pc
	2100							1276	374	1393	408	1.65	5.63	2586	758			
	2400	1472	432	1603	470	1.63	5.56	2878	843									
	3000	1773	520	1920	563	1.60	5.46	3309	970									
	3600	2137	626	2315	679	1.57	5.36	3978	1166									
	123B3994				100-127V 50/60Hz (**)													

R600a LBP | MBP | HBP

COMPRESSOR MODEL	DANFOSS CODE (α)	DISPLACEMENT		MOTOR TYPE	VOLTAGE FREQUENCY	APPLICATION	COMPRESSOR COOLING	SPEED	REFRIGERATION CAPACITY								WEIGHT	DESIGN
									ASHRAE conditions									
									Condensing temperature = 131°F (55°C)									
									-13°F (-25°C)		-10°F (-23.3°C)				+14°F (-10°C)			
rpm	Btu/h	W	Btu/h	W	Cooling Capacity		COP	EER	Btu/h	W	lbs							
HD36FDC 12-24V (**)	123B4928	0.219	3.60	ECM	12-24-42V DC	LBP	S/F	1500	1170	343	1187	348	1.52	5.19	2371	695	12.13	Db
								2000	1393	408	1393	408	1.65	5.63	2736	802		
								2500	1589	466	1603	470	1.63	5.56	3095	907		
								3000	1907	559	1920	563	1.60	5.46	-	-		
								3500	2303	675	2315	679	1.57	5.36	-	-		

(**) Model under development

(****) Different electronic driver on voltage range

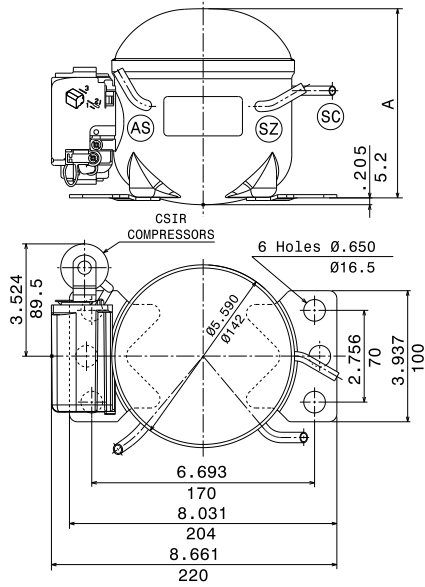
(α) Ordering code for single compressors. For pallet packed compressors, please use 123F instead of 123B

Technical Information



Compressor Dimensional Drawings

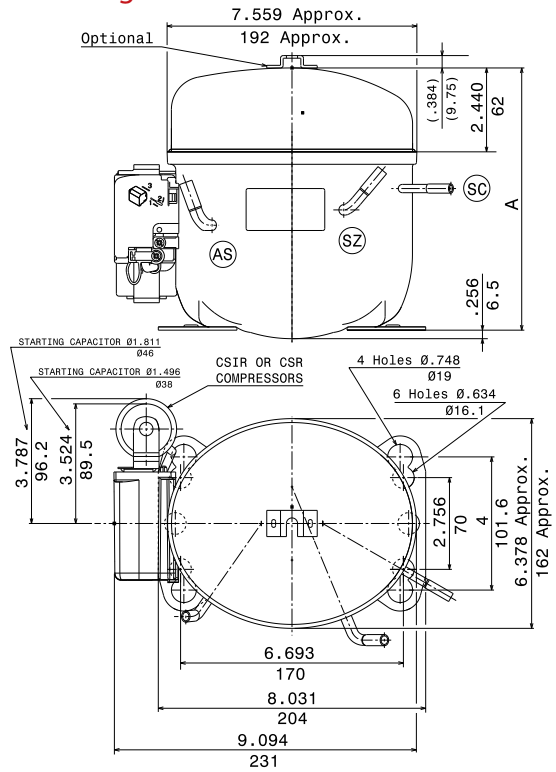
D range



	A	
Db	5.886	in
	149.5	mm
Dc	6.201	in
	157.5	mm
Dd	6.398	in
	162.5	mm

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

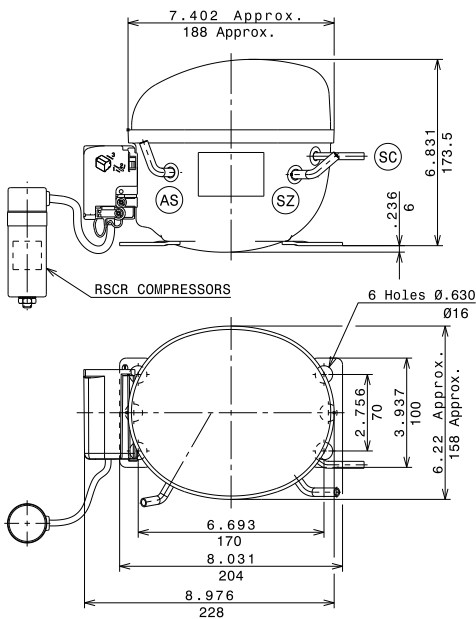
L range



	A	
Lb	6.890	in
	175	mm
Lc	7.307	in
	185.600	mm
Ld	7.795	in
	198	mm

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

U range

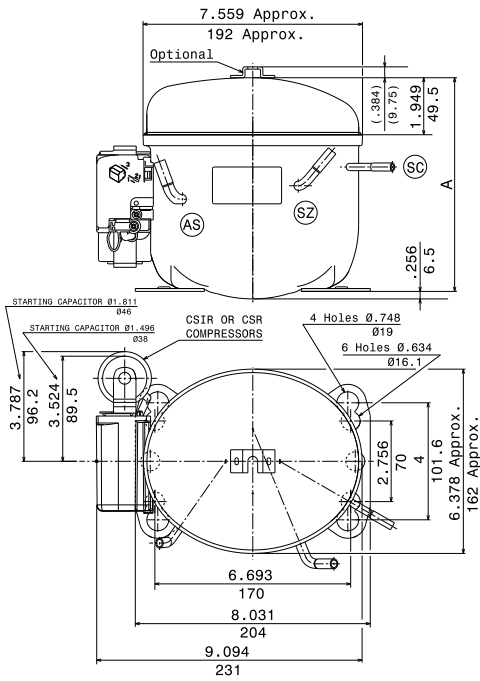


	A	
Ub	6.831	in
	173.5	mm
Uc	69.488	in
	176.5	mm

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

Dimensions = $\frac{\text{inches}}{\text{millimeters}}$

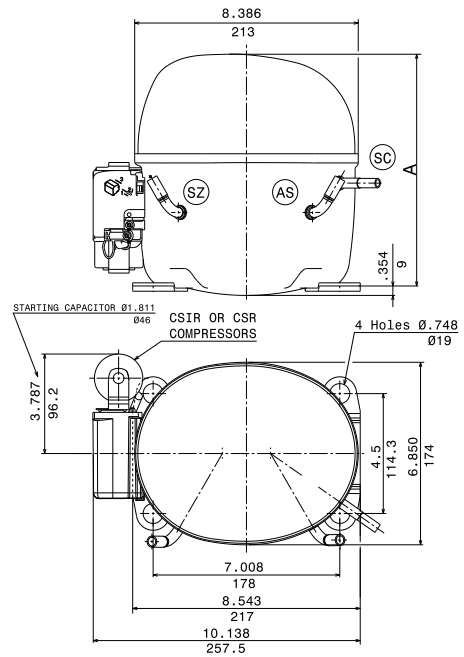
P range



	A		
Pc	7.799	in	
	198.1	mm	
Pd	8.287	in	
	210.5	mm	

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

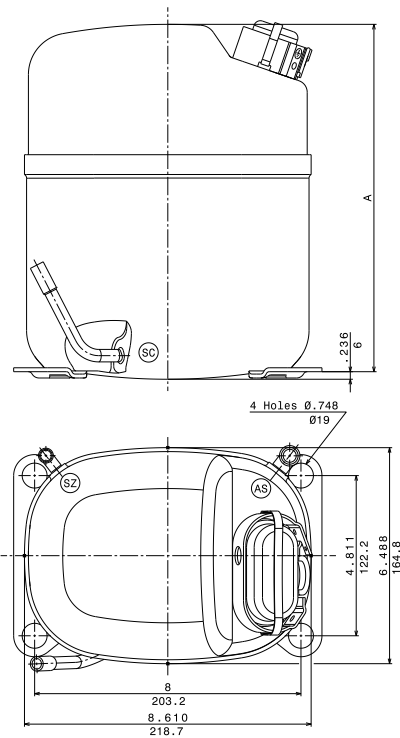
X range



	A		
Xc	8.465	in	
	215	mm	
Xd	8.701	in	
	221	mm	

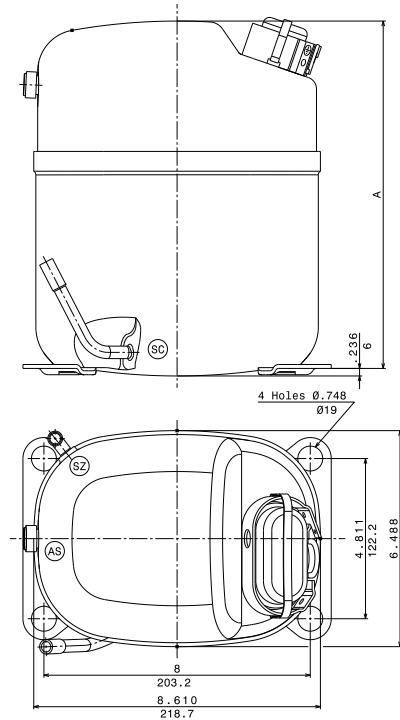
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

S range (Tube)



Dimensions = $\frac{\text{inches}}{\text{millimeters}}$

S range (Valve)



	A		
Sb	9.921	in	
	252	mm	
Sc	10.433	in	
	265	mm	
Sd	10.866	in	
	276	mm	

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

Packaging

Single Box

		Box dimensions						Pallet dimensions			
		Length		Width		Height		Length		Width	
Range		(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
Compressors	D	257	10.12	172	6.77	145/160	5.71/6.30	1010	39.76	1010	39.76
	U	300	11.81	192	7.56	167/185	6.57/7.28	1200	47.24	1050	41.34
	L & P	300	11.81	192	7.56	167/185/198/214	6.57/7.28/7.80/8.43	1200	47.24	1050	41.34
	X & P (w/ connecting box)	320	12.60	192	7.56	222	8.74	1050	41.34	1050	41.34
	X	347	13.66	207	8.15	230	9.06	1050	41.34	1050	41.34
	S	282	11.10	215	8.46	363	14.29	1010	39.76	1010	39.76

Tray

		Tray dimensions				Pallet dimensions			
		Length		Width		Length		Width	
Range		(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
Compressors	D	1010	39.76	1010	39.76	1010	39.76	1010	39.76
	U	1120	44.09	810	31.89	1120	44.09	800	31.50
	L & P	1060	41.73	990	38.98	1050	41.34	1050	41.34
	X	1050	41.34	1020	40.16	1050	41.34	1050	41.34
	S	1050	41.34	1050	41.34	1050	41.34	1050	41.34

Quantities per Pallet

Range	Tray			Single Box		
	Qty / Level	N° Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
D	24	5	120	24	5	120
U	18	5	90	20	5	100
L	24	5	120	20	5	100
P	24	5	120	20	5	100
P w/ connecting Box	24	5	120	16	4	64
X	17	4	68	16	4	64
X w/ connecting Box	17	4	68	15	4	60
S	24	2	48	16	3	48

Fixings

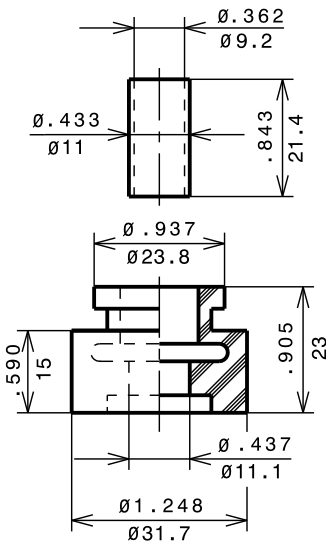
Fixings allow the manufacturer of appliances to fix the compressor to the appliance base, connecting it to the cooling system.

Mounting feet

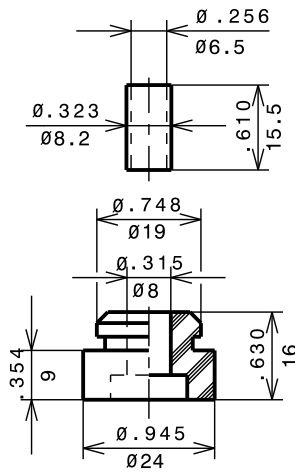
Range	Mounting feet	
D	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
U	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
L / P	European type Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm	American type Two sets of 4 holes: 1.- Set of 16 mm DIA with inter-axes: 70 x 170 mm 2.- Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 6 1/2 inch (101.6 x 165 mm)
X	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (4 1/2 x 7 inch)	
S	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 200.2 mm (4 13/16 x 7 7/8 inch)	

Silent Blocks

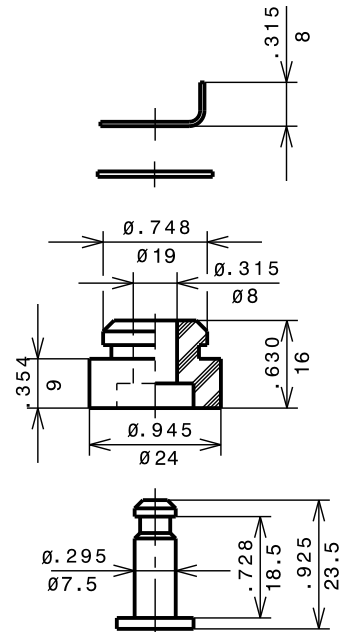
STANDARD



AMERICAN FEET



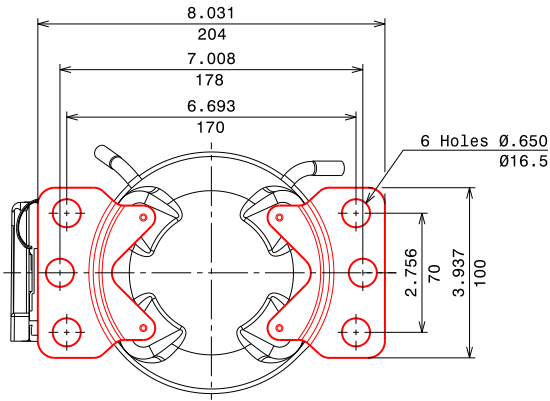
SNAP-ON



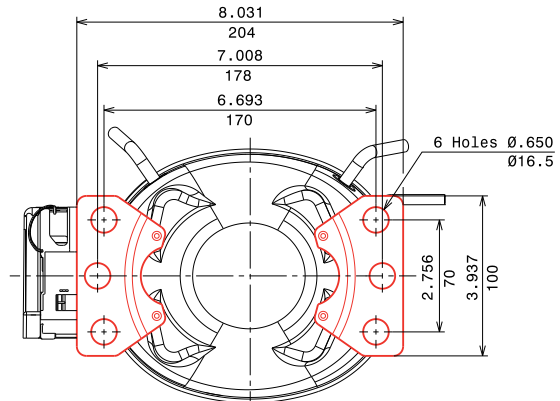
Dimensions = $\frac{\text{inches}}{\text{millimeters}}$

Danfoss Light Commercial Refrigeration Compressors

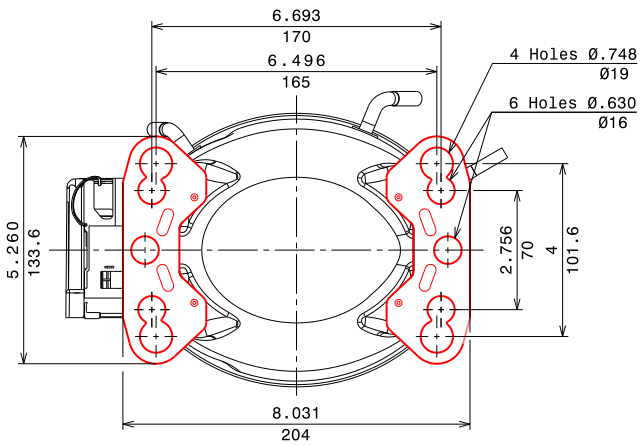
D Range



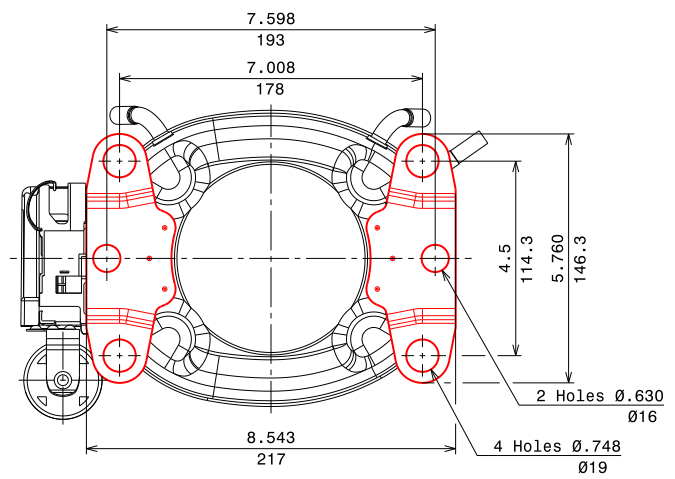
U Range



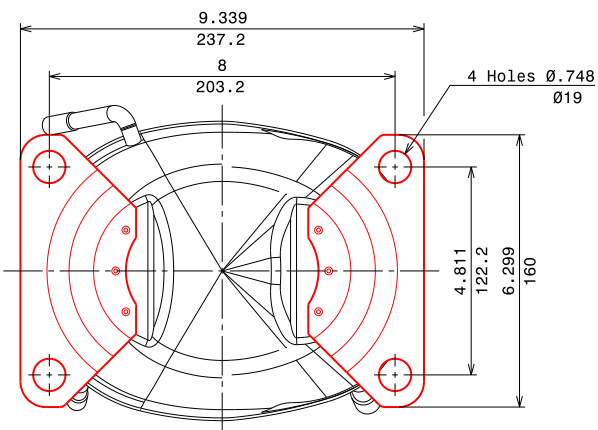
L/P Range



X Range



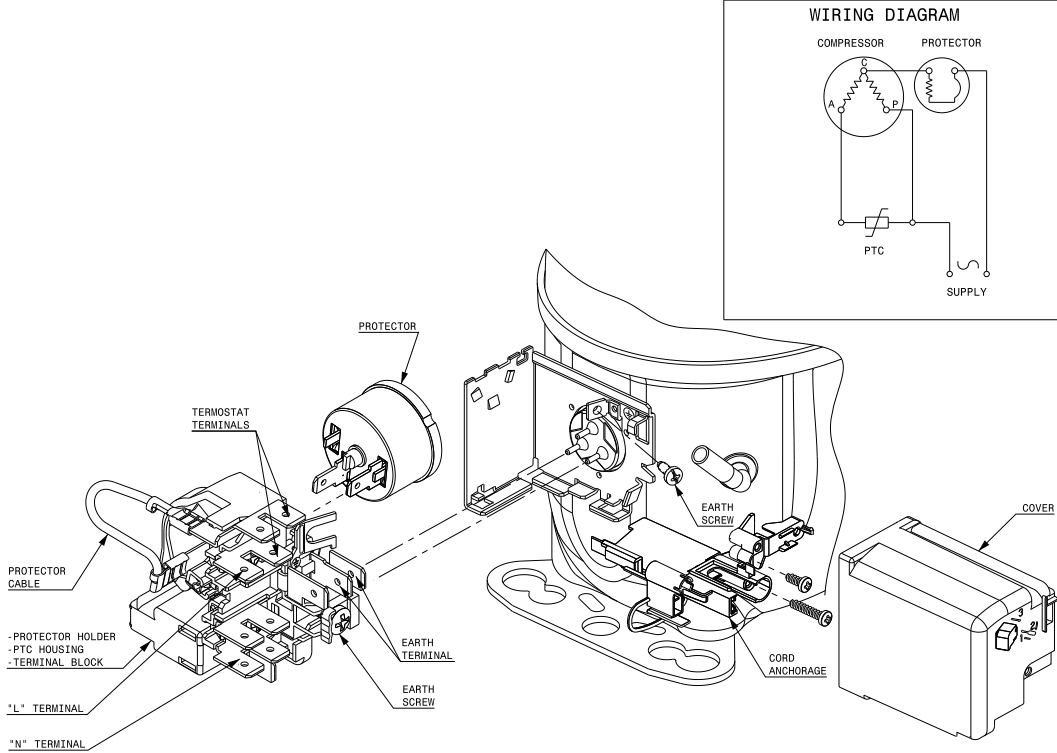
S Range



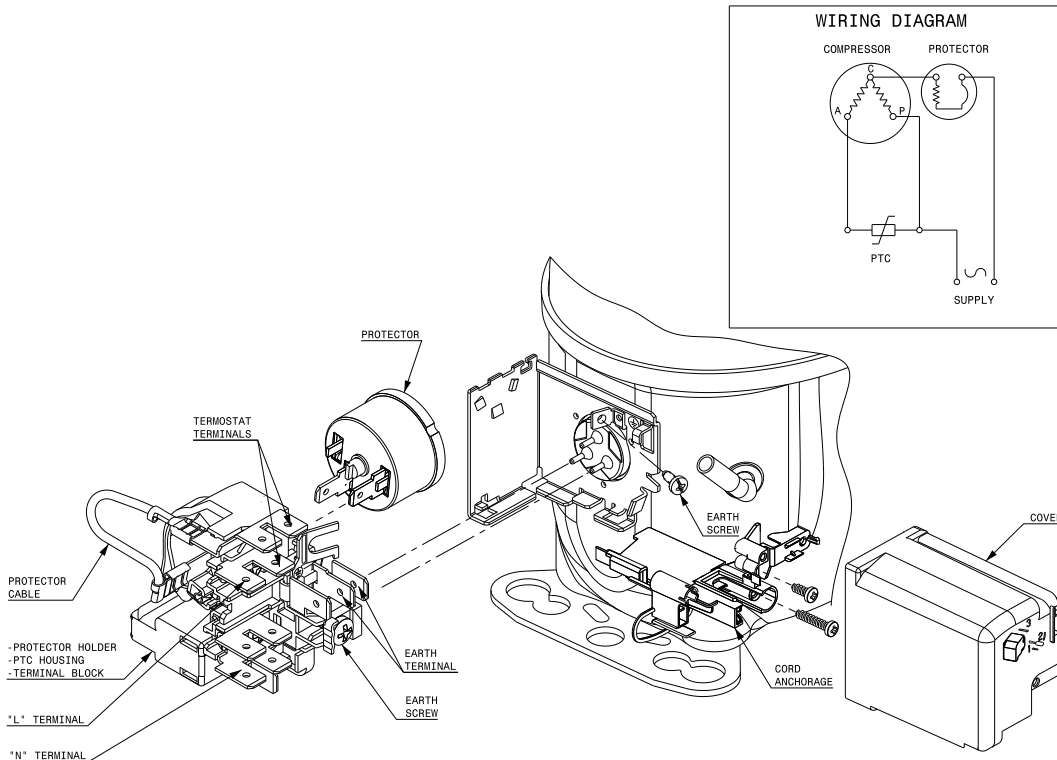
Dimensions = $\frac{\text{inches}}{\text{millimeters}}$

Wiring Diagrams and Electrical Assembly

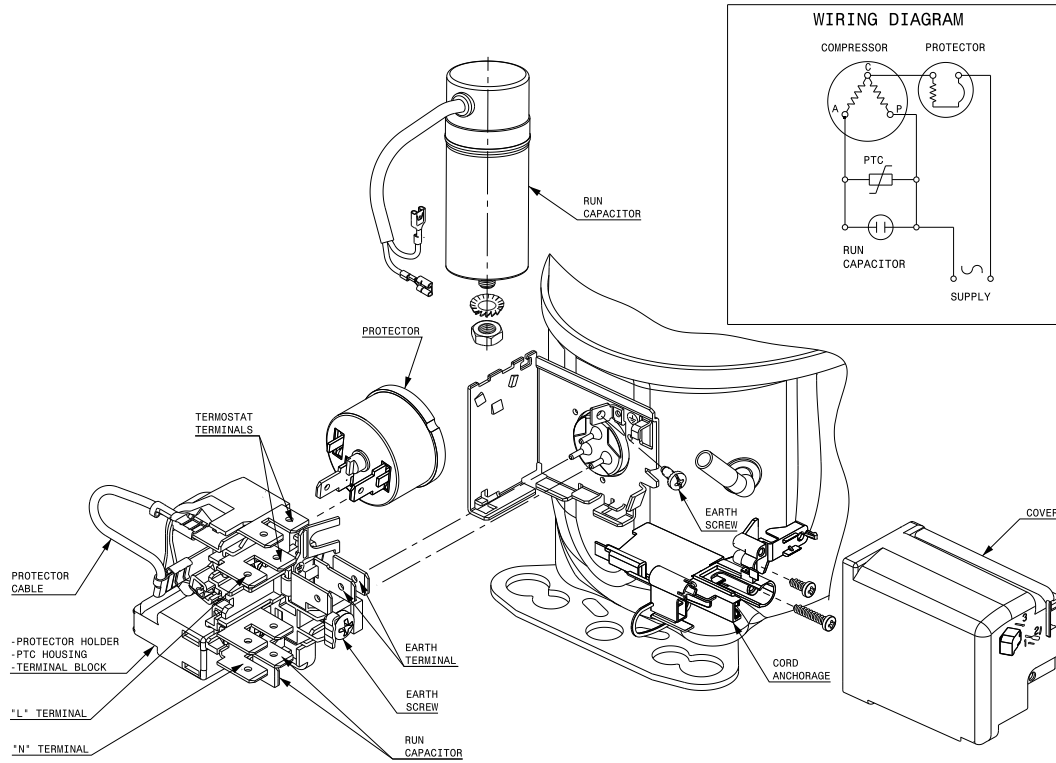
RSIR CONNECTION (PTC)



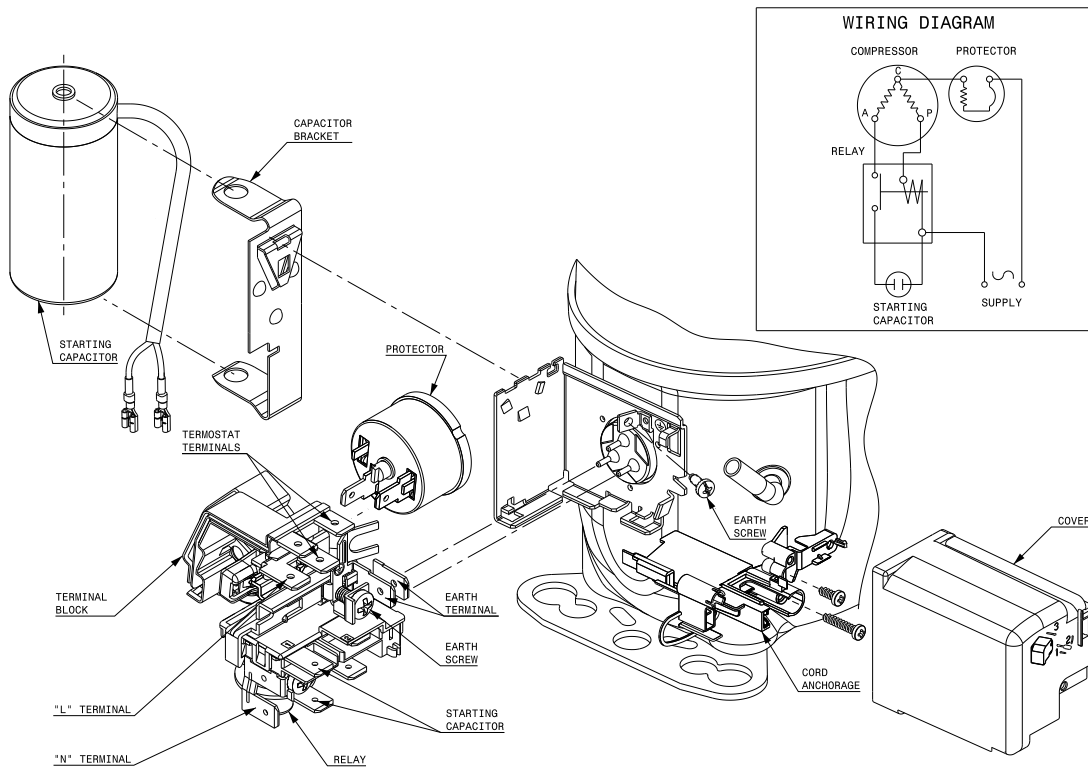
RSIR CONNECTION (RELAY)



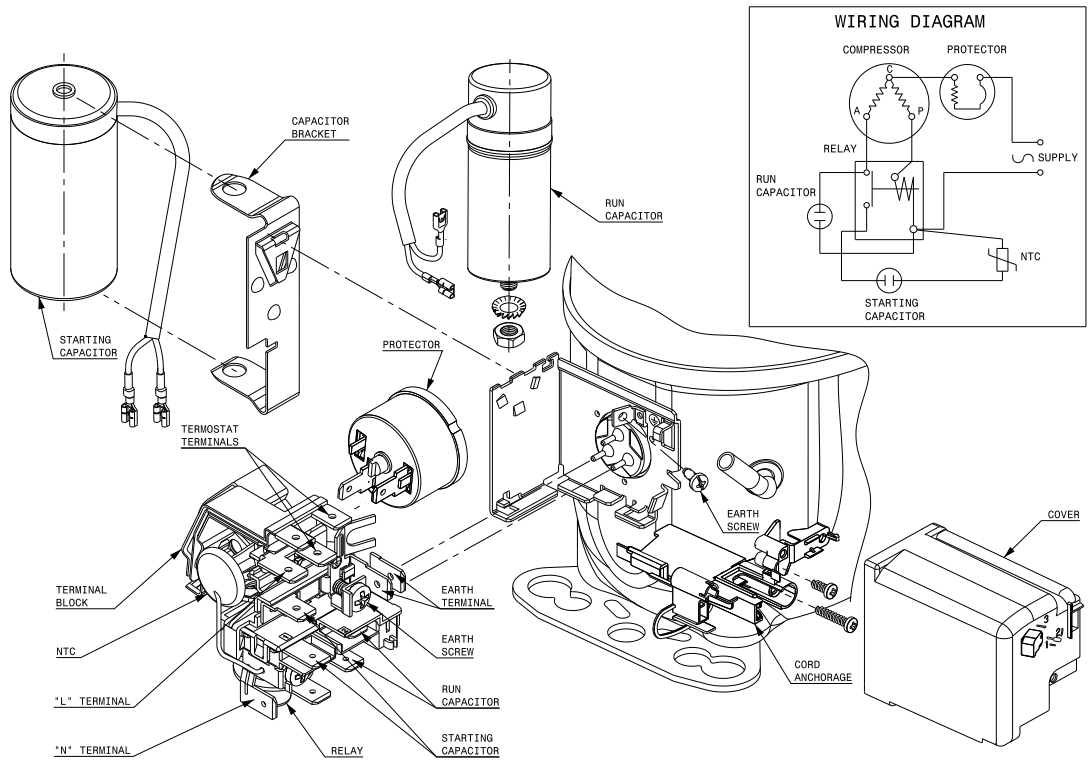
RSCR CONNECTION



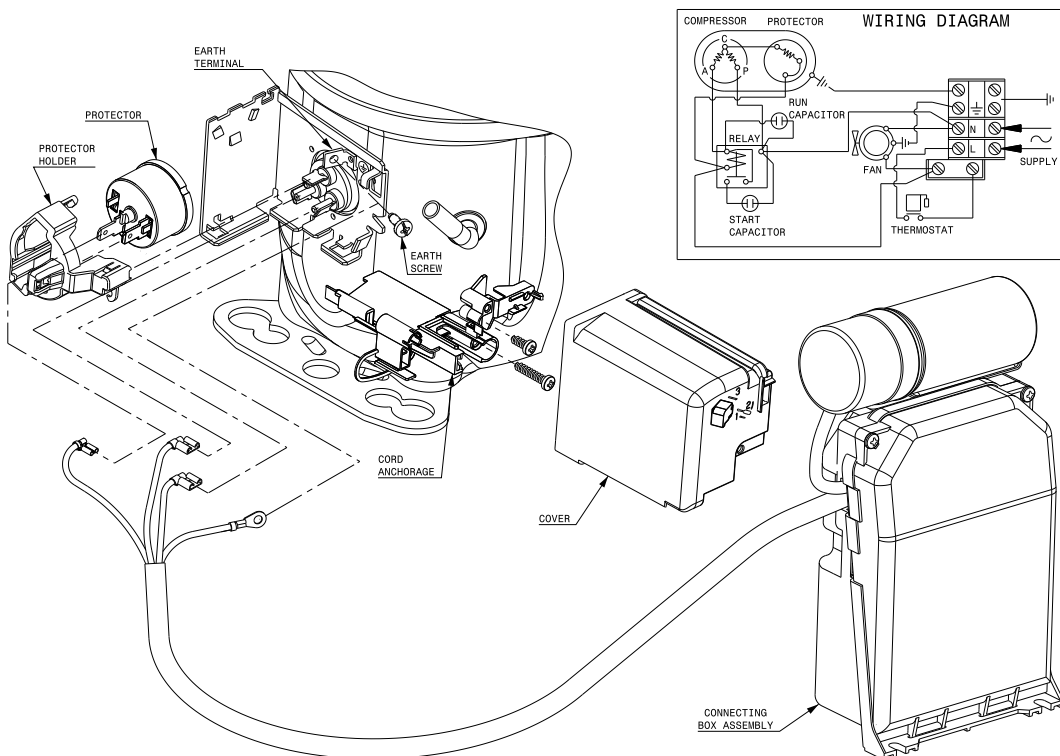
CSIR CONNECTION



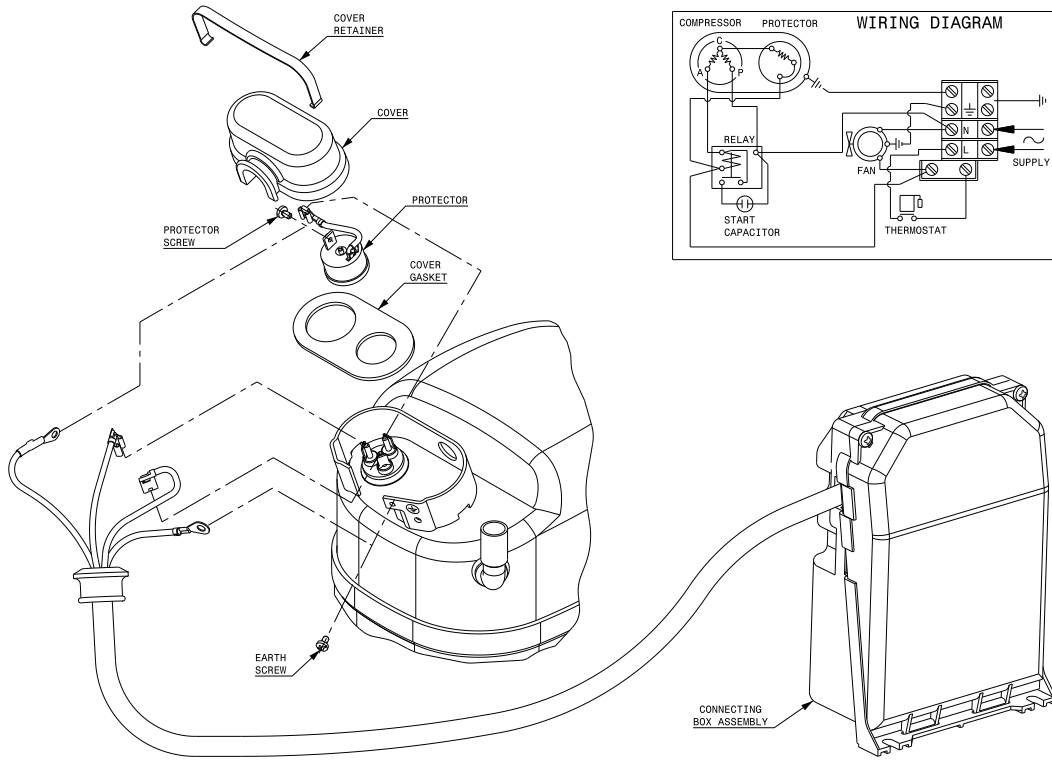
CSR CONNECTION (CURRENT RELAY + NTC)



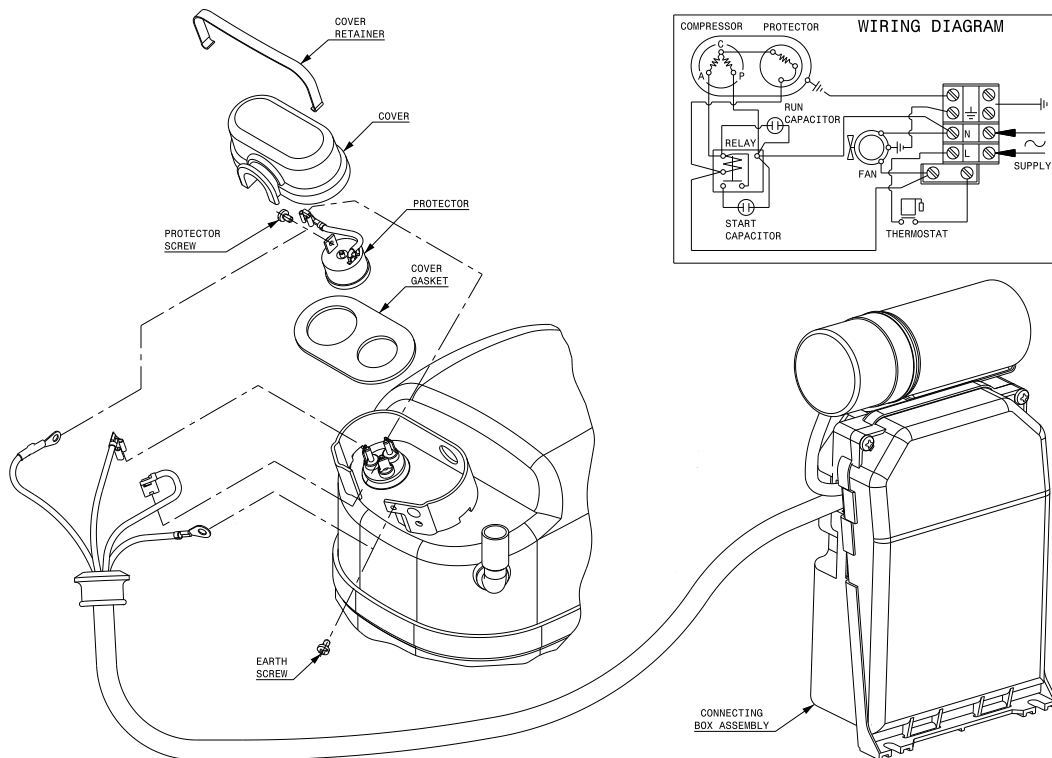
CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



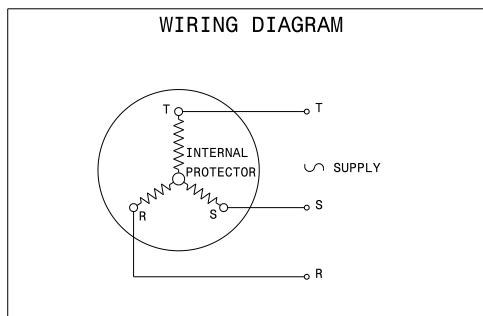
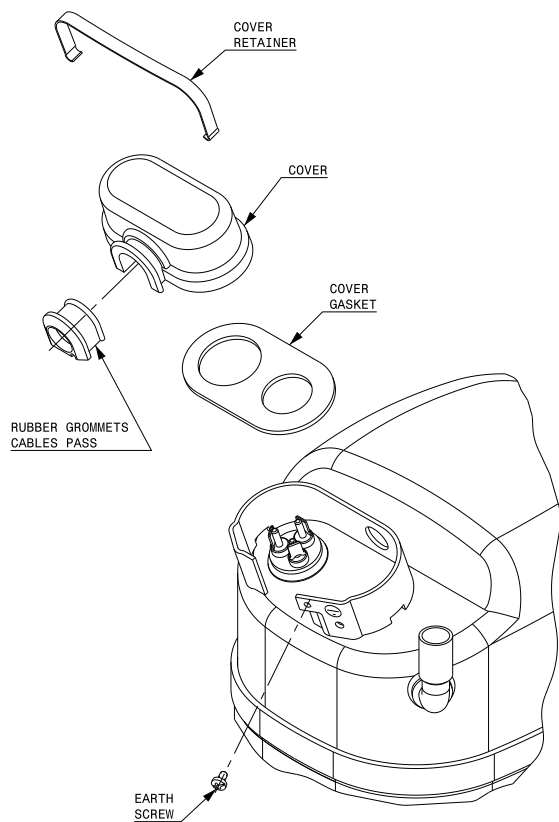
CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



3PH CONNECTION (S range)



Spare parts list

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GD24ADa	123B1150	RSIR PTC	115V 60Hz	123B9403	123B9102	-	-
GD24ADb	123B1151	CSIR Relay	115V 60Hz	123B9403	123B9103	123B9309	-
GD24MEa	123B1555	RSIR PTC	115V 60Hz	123B9405	123B9102	-	-
GD24MEc	123B1717	CSIR Relay	115V 60Hz	123B9406	123B9105	123B9309	-
GD24NEa	123B1401	RSIR PTC	115V 60Hz	123B9408	123B9102	-	-
GD30AG	123B1103	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9411	123B9101	-	-
GD30MEa	123B1556	RSIR PTC	115V 60Hz	123B9416	123B9102	-	-
GD30MEb	123B1557	RSIR PTC	115V 60Hz	123B9408	123B9102	-	-
GD30MEc	123B1558	CSIR Relay	115V 60Hz	123B9406	123B9107	123B9309	-
GD30MEd	123B1559	CSIR Relay	115V 60Hz	123B9417	123B9107	123B9309	-
GD30NEa	123B1403	RSIR PTC	115V 60Hz	123B9408	123B9102	-	-
GD36AD	123B1152	RSIR PTC	115V 60Hz	123B9416	123B9102	-	-
GD36AFa	123B1105	RSIR PTC	200-220V 50Hz & 230V 60Hz	123B9418	123B9101	-	-
GD36AFb	123B1106	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9407	123B9106	123B9311	-
GD36MEa	123B1560	RSIR PTC	115V 60Hz	123B9416	123B9102	-	-
GD36MEb	123B1561	RSIR PTC	115V 60Hz	123B9408	123B9102	-	-
GD36MEc	123B1562	CSIR Relay	115V 60Hz	123B9425	123B9108	123B9309	-
GD36MEd	123B1563	CSIR Relay	115V 60Hz	123B9426	123B9108	123B9309	-
GD40AF	123B1108	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9418	123B9101	-	-
GD40MEa	123B1564	RSIR PTC	115V 60Hz	123B9432	123B9102	-	-
GD40MEb	123B1565	RSIR PTC	115V 60Hz	123B9433	123B9102	-	-
GD40MEc	123B1566	CSIR Relay	115V 60Hz	123B9434	123B9109	123B9309	-
GD40MEd	123B1567	CSIR Relay	115V 60Hz	123B9435	123B9109	123B9309	-
GD40MGd	123B1703	CSIR Relay	230V 50/60Hz	123B9431	123B9106	123B9311	-
GD40NEa	123B1404	RSIR PTC	115V 60Hz	123B9416	123B9102	-	-
GL45ADa	123B1153	RSIR PTC	115V 60Hz	123B9441	123B9102	-	-
GL45ADb	123B1154	CSIR Relay	115V 60Hz	123B9405	123B9108	123B9309	-
GL45ANa	123B1113	RSIR PTC	200-240V 50Hz & 220-230V 60Hz	123B9418	123B9113	-	-
GL45MG	123B1704	CSIR Relay	230V 50/60Hz	123B9444	123B9112	123B9311	-
GL45PE	123B1568	RSIR Relay	115V 60Hz	123B9445	123B9115	-	-
GL45TE	123B1569	CSIR Relay	115V 60Hz	123B9445	123B9116	123B9309	-
GL45TG	123B1517	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9439	123B9112	123B9311	-
GL60ADa	123B1155	RSIR PTC	115V 60Hz	123B9433	123B9102	-	-
GL60ADb	123B1156	CSIR Relay	115V 60Hz	123B9425	123B9116	123B9309	-
GL60ANa	123B1118	RSIR PTC	200-240V 50Hz & 220-230V 60Hz	123B9450	123B9113	-	-
GL60ANb	123B1119	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9404	123B9112	123B9311	-
GL60ANc	123B1120	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9451	123B9112	123B9311	-
GL60MG	123B1705	CSIR Relay	230V 50/60Hz	123B9402	123B9107	123B9311	-
GL60PE	123B1570	RSIR Relay	115V 60Hz	123B9456	123B9168	-	-
GL60TC	123B1523	CSIR Relay	100V 50/60Hz	123B9455	123B9118	123B9309	-
GL60TE	123B1571	CSIR Relay	115V 60Hz	123B9456	123B9118	123B9309	-
GL60TG	123B1522	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9457	123B9107	123B9311	-
GL80ADa	123B1157	RSIR PTC	115V 60Hz	123B9432	123B9102	-	-
GL80ADb	123B1158	CSIR Relay	115V 60Hz	123B9462	123B9118	123B9318	-
GL80ANa	123B1125	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9459	123B9113	-	-
GL80ANb	123B1126	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9464	123B9108	123B9315	-
GL80ANc	123B1127	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9108	123B9315	-
GL80MG	123B1706	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9119	123B9312	-
GL80PE	123B1574	RSIR Relay	115V 60Hz	123B9467	123B9121	-	-
GL80TC	123B1529	CSIR Relay	100V 50/60Hz	123B9469	123B9122	123B9318	-
GL80TE	123B1575	CSIR Relay	115V 60Hz	123B9467	123B9122	123B9318	-
GL80TG	123B1528	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9470	123B9119	123B9312	-
GL90ADa	123B1159	RSIR PTC	115V 60Hz	123B9471	123B9102	-	-

Danfoss Light Commercial Refrigeration Compressors

Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
GL90ADb	123B1160	CSIR Relay	115V 60Hz	123B9472	123B9122	123B9318	-
GL90ANa	123B1132	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9474	123B9113	-	-
GL90ANb	123B1133	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9425	123B9110	123B9315	-
GL90ANc	123B1134	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9475	123B9110	123B9315	-
GL90MG	123B1707	CSIR Relay	230V 50/60Hz	123B9477	123B9109	123B9312	-
GL90PE	123B1578	RSIR Relay	115V 60Hz	123B9469	123B9121	-	-
GL90TC	123B1535	CSIR Relay	100V 50/60Hz	123B9478	123B9122	123B9318	-
GL90TE	123B1579	CSIR Relay	115V 60Hz	123B9469	123B9122	123B9318	-
GL90TG	123B1534	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9435	123B9109	123B9312	-
GL99ADa	123B1161	RSIR PTC	115V 60Hz	123B9471	123B9102	-	-
GL99ADb	123B1162	CSIR Relay	115V 60Hz	123B9471	123B9122	123B9318	-
GLY12RGa	123B1710	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9110	123B9312	-
GLY12RGb	123B1711	CSR Relay + NTC	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9169	123B9312	123B9212
GLY80RDa	123B1572	CSIR Relay	115V 60Hz	123B9472	123B9121	123B9312	-
GLY80RDb	123B1573	CSR Relay + NTC	115V 60Hz	123B9489	123B9124	123B9313	123B9216
GLY90RDa	123B1576	CSIR Relay	115V 60Hz	123B9491	123B9129	123B9313	-
GLY90RDb	123B1577	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
GP12PE	123B1582	RSIR Relay	115V 60Hz	123B9494	123B9132	-	-
GP12TE	123B1583	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9318	-
GP12TG	123B1594	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9495	123B9116	123B9312	-
GP12YG	123B1802	CSIR Relay	230V 50/60Hz	123B9472	123B9136	123B9312	-
GP14CG	123B1142	RSIR Relay	200-220V 50Hz & 230V 60Hz	123B9464	123B9115	-	-
GP14FC	123B1144	CSIR Relay	100V 50/60Hz	123B9494	123B9134	123B9314	-
GP14FE	123B1163	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	-
GP14PE	123B1586	RSIR Relay	115V 60Hz	123B9496	123B9134	-	-
GP14TE	123B1587	CSIR Relay	115V 60Hz	123B9496	123B9134	123B9318	-
GP14TG	123B1539	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9497	123B9136	123B9312	-
GP16FC	123B1149	CSIR Relay	100V 50/60Hz	123B9494	123B9134	123B9314	-
GP16FE	123B1164	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	-
GP16TE	123B1718	CSIR Relay	115V 60Hz	123B9496	123B9137	123B9318	-
GP16TG	123B1714	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9482	123B9118	123B9316	-
GPT16RG	123B1715	CSR Relay + NTC	200-220/220-230V 50/60Hz	123B9498	123B9139	123B9316	123B9225
GPY12RDa	123B1580	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	-
GPY12RDb	123B1581	CSR Relay + NTC	115V 60Hz	123B9491	123B9141	123B9314	123B9216
GPY14RDa	123B1584	CSIR Relay	115-127V 60Hz	123B9496	123B9138	123B9314	-
GPY14RDb	123B1585	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9143	123B9314	123B9217
GPY16RDa	123B1588	CSIR Relay	115-127V 60Hz	123B9496	123B9138	123B9314	-
GPY16RDb	123B1589	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9143	123B9314	123B9217
GS26T3	123B1551	3ph Size S	400-440V 50/60Hz 3ph	123B9505	123B9144	-	-
GS26TG	123B1550	CSIR Box Size S	200-220V 50Hz & 220-230V 60Hz	123B9507	123B9145	123B9301	-
GS30TG	123B1553	CSR Box Size S	200-220V 50Hz & 220-230V 60Hz	123B9507	123B9147	123B9304	123B9205
GS34TF	123B1590	CSR Box Size S	220-230V 60Hz	123B9509	123B9147	123B9304	123B9205
GX18TG	123B1545	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9489	123B9129	123B9315	-
GX23TG	123B1548	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9494	123B9134	123B9316	-
HPY12AGa	123B4116	RSIR PTC	200-220V 50Hz & 220-230V 60Hz	123B9461	123B9101	-	-
HPY12AGb	123B4117	RSCR PTC	200-220V 50Hz & 220-230V 60Hz	123B9461	123B9101	-	123B9210
HPY14AJa	123B4120	RSIR PTC	100V 50/60Hz	123B9517	123B9102	-	-
HPY14AJb	123B4121	RSCR PTC	100V 50/60Hz	123B9517	123B9102	-	123B9217
ML40TG	123B2502	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9464	123B9108	123B9311	-
ML45FG	123B2104	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9439	123B9107	123B9311	-
ML45FR	123B2160	CSIR Relay	115-127V 60Hz	123B9499	123B9136	123B9309	-
ML45TG	123B2504	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9464	123B9108	123B9311	-
ML60FG	123B2108	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9466	123B9119	123B9311	-
ML60FR	123B2143	CSIR Relay	115-127V 60Hz	123B9482	123B9118	123B9309	-

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Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
ML60TG	123B2508	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9436	123B9110	123B9311	-
ML60TR	123B2529	CSIR Relay	115-127V 60Hz	123B9472	123B9122	123B9318	-
ML80FG	123B2112	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9502	123B9136	123B9312	-
ML80FR	123B2146	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9318	-
ML80TG	123B2512	CSIR Relay	200-240V 50Hz & 220-230V 60Hz	123B9455	123B9116	123B9312	-
ML90FG	123B2116	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9502	123B9136	123B9312	-
ML90FR	123B2147	CSIR Relay	115-127V 60Hz	123B9494	123B9134	123B9318	-
ML90TG	123B2516	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9482	123B9136	123B9312	-
MLT90CD	123B2149	RSCR PTC	115V 60Hz	123B9432	123B9102	-	123B9216
MLT90CDc	123B2150	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
MLT90LD	123B2148	CSR Relay + NTC	115V 60Hz	123B9472	123B9130	123B9313	123B9216
MLY60LDa	123B2144	CSIR Relay	115V 60Hz	123B9482	123B9118	123B9313	-
MLY60LDb	123B2145	CSR Relay + NTC	115V 60Hz	123B9499	123B9150	123B9313	123B9216
MLY60RDa	123B2527	CSIR Relay	115V 60Hz	123B9491	123B9122	123B9313	-
MLY60RDb	123B2528	CSR Relay + NTC	115V 60Hz	123B9472	123B9124	123B9313	123B9216
MLY80RDa	123B2530	CSIR Relay	115V 60Hz	123B9494	123B9134	123B9314	-
MLY80RDb	123B2531	CSR Relay + NTC	115V 60Hz	123B9491	123B9141	123B9314	123B9216
MP12FG	123B2166	CSIR Relay	200-220V 50Hz & 220-230V 60Hz	123B9499	123B9136	123B9315	-
MP12FR	123B2151	CSIR Relay	115-127V 60Hz	123B9496	123B9134	123B9318	-
MP12TG	123B2517	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9482	123B9153	123B9307	123B9218
MP14FE	123B2154	CSIR Relay	115V 60Hz	123B9496	123B9138	123B9318	-
MP14FG	123B2125	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9482	123B9118	123B9316	-
MPT12CD	123B2153	RSCR PTC	115V 60Hz	123B9471	123B9102	-	123B9216
MPT12LD	123B2152	CSR Relay + NTC	115V 60Hz	123B9527	123B9141	123B9314	123B9216
MPT14LD	123B2155	CSR Relay + NTC	115V 60Hz	123B9496	123B9143	123B9314	123B9227
MPT14LF	123B2156	CSR Relay + NTC	208-230V 60Hz	123B9498	123B9139	123B9315	123B9219
MS18T3	123B2520	3ph Size S	400-440V 50/60Hz 3ph	123B9505	123B9144	-	-
MS22T3	123B2522	3ph Size S	400-440V 50/60Hz 3ph	123B9505	123B9144	-	-
MS26F3	123B2136	3ph Size S	400-440V 50/60Hz 3ph	123B9505	123B9144	-	-
MS26FF	123B2157	CSR Box Size S	208-230V 60Hz	123B9529	123B9153	123B9304	123B9207
MS26FG	123B2135	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9530	123B9153	123B9304	123B9207
MS26T3	123B2525	3ph Size S	400-440V 50/60Hz 3ph	123B9531	123B9144	-	-
MS26TG	123B2524	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9509	123B9156	123B9304	123B9204
MS30F3	123B2138	3ph Size S	400-440V 50/60Hz 3ph	123B9532	123B9144	-	-
MS30FF	123B2158	CSR Box Size S	208-230V 60Hz	123B9509	123B9153	123B9304	123B9207
MS30FG	123B2159	CSR Box Size S	230V 60Hz	123B9533	123B9156	123B9304	123B9204
MS34F3	123B2140	3ph Size S	400-440V 50/60Hz 3ph	123B9534	123B9144	-	-
MS34T3	123B2526	3ph Size S	400-440V 50/60Hz 3ph	123B9537	123B9144	-	-
MS34TG	123B2711	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9548	123B9156	123B9304	123B9228
MX18TG	123B2519	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9494	123B9156	123B9302	123B9207
MX21FG	123B2131	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9472	123B9156	123B9302	123B9207
MX21TG	123B2709	CSR Box	200-220V 50Hz & 230V 60Hz	123B9496	123B9156	123B9302	123B9207
MX23FG	123B2133	CSR Box	200-220V 50Hz & 220-230V 60Hz	123B9491	123B9153	123B9304	123B9203
NLY45LRa	123B3129	CSIR Relay	115-127V 60Hz	123B9470	123B9118	123B9313	-
NLY45LRb	123B3130	CSR Relay + NTC	115-127V 60Hz	123B9470	123B9150	123B9313	123B9216
NLY45RRa	123B3516	CSIR Relay	115-127V 60Hz	123B9489	123B9118	123B9320	-
NLY45RRb	123B3517	CSR Relay + NTC	115-127V 60Hz	123B9489	123B9150	123B9320	123B9216
NLY60LRa	123B3131	CSIR Relay	115-127V 60Hz	123B9482	123B9122	123B9313	-
NLY60LRb	123B3132	CSR Relay + NTC	115-127V 60Hz	123B9482	123B9124	123B9313	123B9216
NLY60RRa	123B3518	CSIR Relay	115-127V 60Hz	123B9489	123B9118	123B9309	-
NLY60RRb	123B3519	CSR Relay + NTC	115-127V 60Hz	123B9489	123B9150	123B9309	123B9216
NLY75RRa	123B3520	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	-
NLY75RRb	123B3521	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
NLY80LRa	123B3133	CSIR Relay	115-127V 60Hz	123B9482	123B9129	123B9318	-
NLY80LRb	123B3134	CSR Relay + NTC	115-127V 60Hz	123B9482	123B9130	123B9318	123B9216

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Model	Code	Motor	Voltage	Protector	Relay	Starting capacitor	Run capacitor
NLY80RRa	123B3522	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	-
NLY80RRb	123B3523	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
NLY90RRa	123B3524	CSIR Relay	115-127V 60Hz	123B9496	123B9129	123B9309	-
NLY90RRb	123B3525	CSR Relay + NTC	115-127V 60Hz	123B9496	123B9130	123B9309	123B9216
NPY12LRa	123B3137	CSIR Relay	115-127V 60Hz	123B9494	123B9129	123B9309	-
NPY12LRb	123B3138	CSR Relay + NTC	115-127V 60Hz	123B9494	123B9130	123B9309	123B9216
L45TN	123B5501	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9417	123B9108	123B9311	-
L57TN	123B5503	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9436	123B9119	123B9311	-
L76TN	123B5507	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9455	123B9109	123B9312	-
L88TN	123B5509	CSIR Relay	200-220V 50Hz & 230V 60Hz	123B9469	123B9116	123B9312	-
P12TN	123B5520	CSR Box	230V 60Hz	123B9467	123B9156	123B9307	123B9201
S18TN	123B5514	CSR Box Size S	200-220V 50Hz & 230V 60Hz	123B9533	123B9153	123B9307	123B9201
S26TN	123B5521	CSR Box Size S	230V 60Hz	123B9546	123B9156	123B9304	123B9203
X16TN	123B5711	CSR Box	200-220V 50Hz & 230V 60Hz	123B9494	123B9156	123B9307	123B9201
X18TN	123B5712	CSR Box	200-220V 50Hz & 230V 60Hz	123B9494	123B9156	123B9307	123B9201

Danfoss Commercial Compressors

is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spanning across three continents.



Danfoss Scrolls



Danfoss Inverter Scrolls



Danfoss Turbocor Compressors



Danfoss Light Commercial Refrigeration Compressors



Danfoss Maneurop Reciprocating Compressors



Danfoss Optyma Condensing Units

Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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Danfoss Commercial Compressors, BP 331, 01603 Trévoux Cedex, France | +334 74 00 28 29



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