

Quick reference

# Light commercial reciprocating compressors **for freezers**

R404A - R507 - R134a - R290 220 - 240V 50 / 60 Hz







**Model designation**

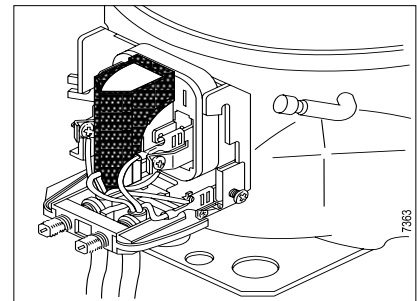
Compressor design	Optimization level	Compressor size	Application range	Start characteristics	Generation
PL	<b>Blank:</b> Standard energy level  <b>S:</b> Semi direct intake	Nominal displacement in cm <sup>3</sup>  <b>Exception:</b> For PL compressors the capacity at rating point is stated	<b>CN:</b> R290 / LBP <b>CL:</b> R404A/R507 LBP <b>F:</b> R134a LBP / (MBP) <b>FT:</b> R134a LBP tropical <b>G:</b> R134a LBP / MBP / HBP	<b>Blank:</b> Universal (principal rule)  <b>X = HST</b> Characteristics (expansion valve)	<b>Blank</b> > first generation <b>.2</b> > Second generation <b>.3</b> > third generation etc...
TL					
NL					
FR					
SC					
GS					

Examples

Compressor design	Optimization level	Compressor size	Application range	Start characteristics	Generation
PL		35	G		
TL	S	5	FT		
NL		7	CL	X	
SC		15	CN	X	.2
GS		26	CL	X	

**Protection screen for PTC**

Note: To fulfil the requirements of EN 60355-2-34 the protection screen 103N0476 must be applied to the PTC starting device.



**Optional IP44 equipment for SC compressors**

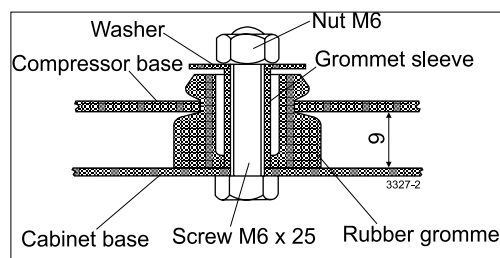
Danfoss now offers special accessories, which provide a better IP protection class for a major part of the SC compressor models. All SC models for 220-240V/50Hz or 208-230V/60Hz and CSIR motor can be IP upgraded. The equipment consists of one additional part, the so called "back cover", and a special starting capacitor. Both are used instead of the normal starting capacitor. When using this equipment, the protection class is increased to IP44, i.e. the compressor and its electrical parts are splash-proof.



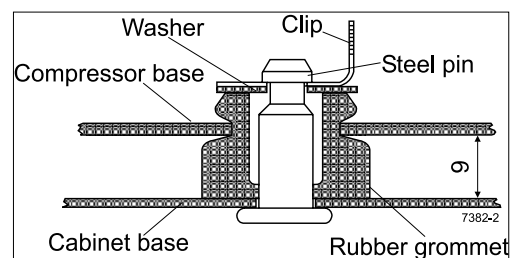
Code number	Description
130N2020	Back cover
117U5117**	IP44 starting capacitor 80µF
** replaces standard capacitor 117U5017	

**Mounting accessories**

The mounting accessories for the compressors are available in two versions, with bolt joint or snap-on joint. The rubber grommets are designed for the 16 mm holes of the baseplate.

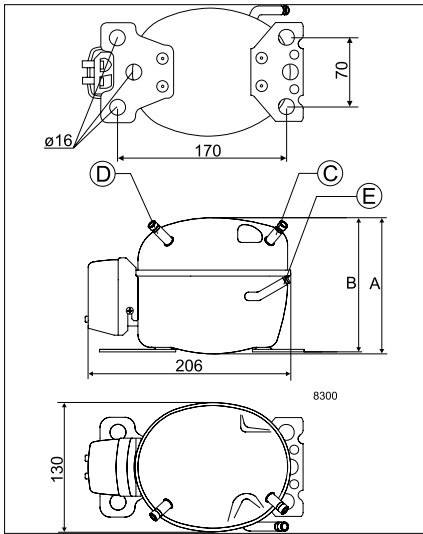


Bolt joint for  
 one compressor : 118-1917  
 in quantities : 118-1918

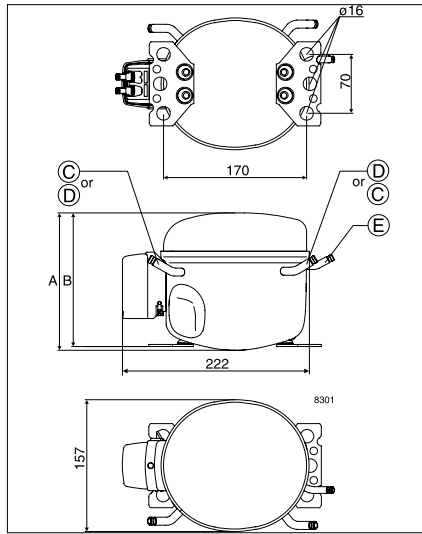


Snap-on  
 in quantities: 118-1919

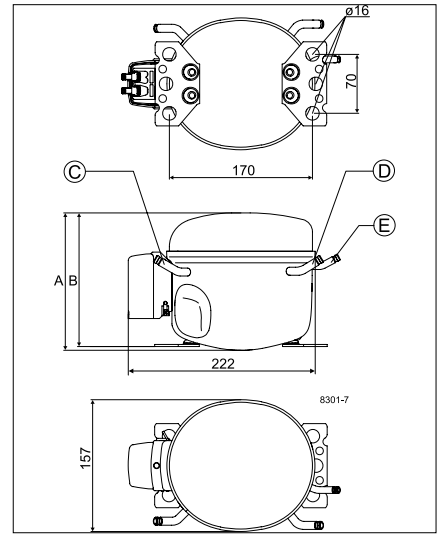
PL



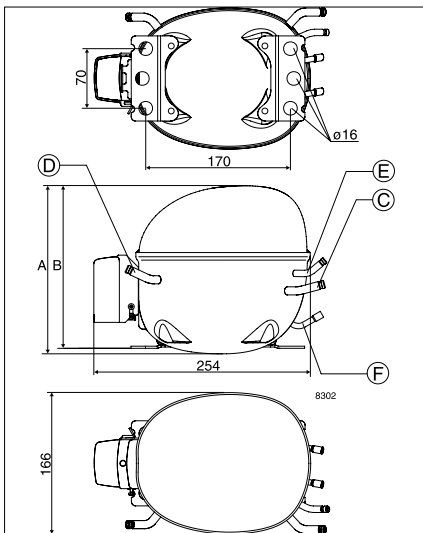
TL



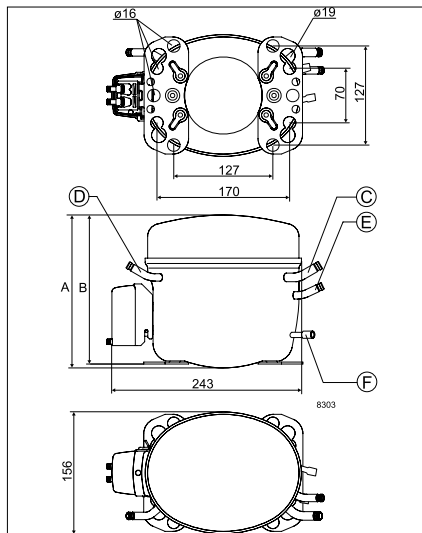
TLS



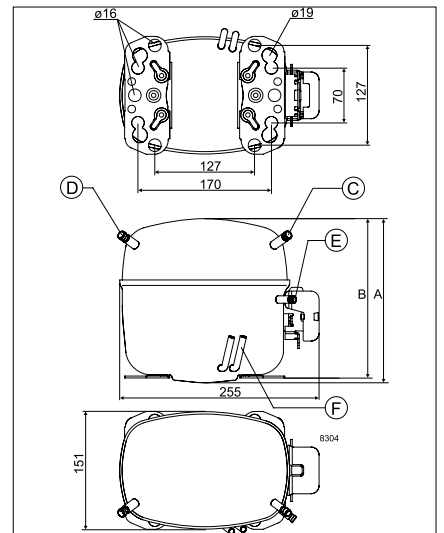
NL



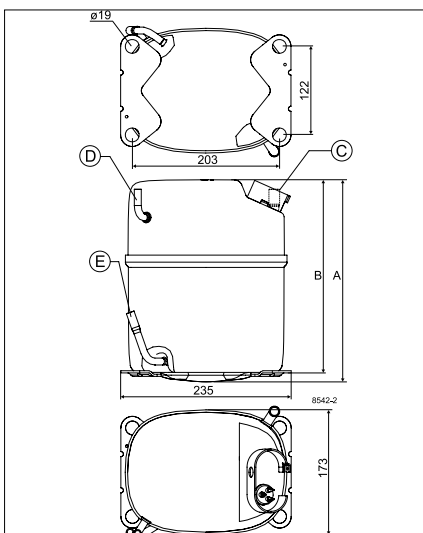
FR



SC

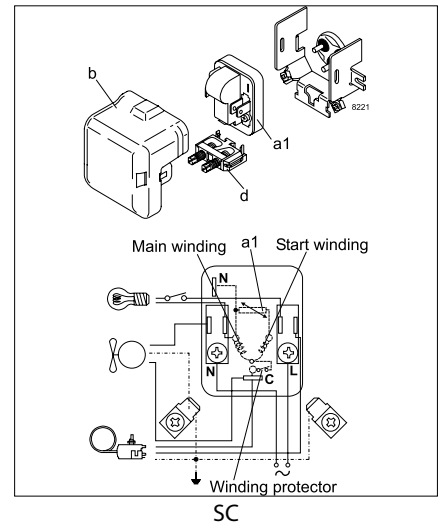
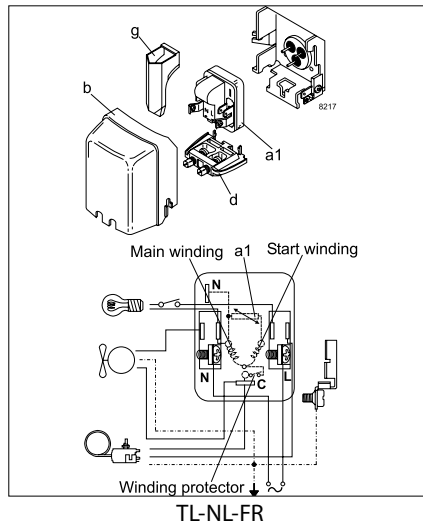
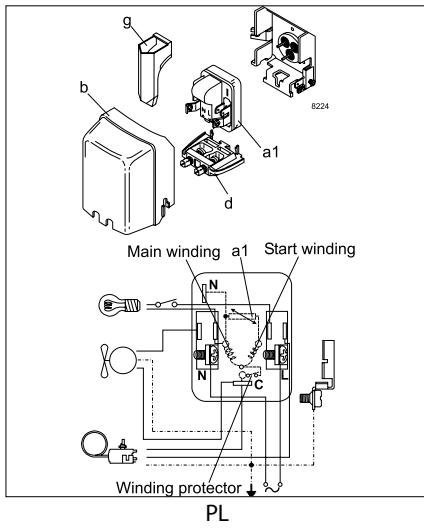


GS

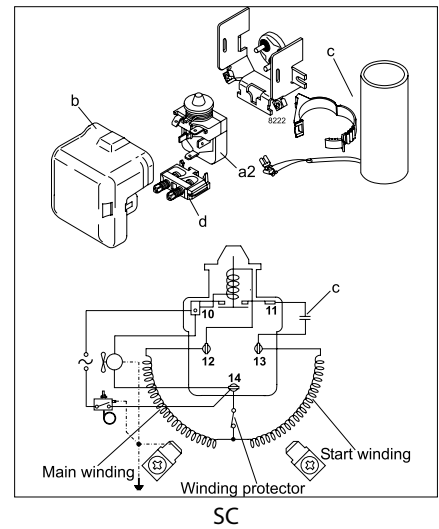
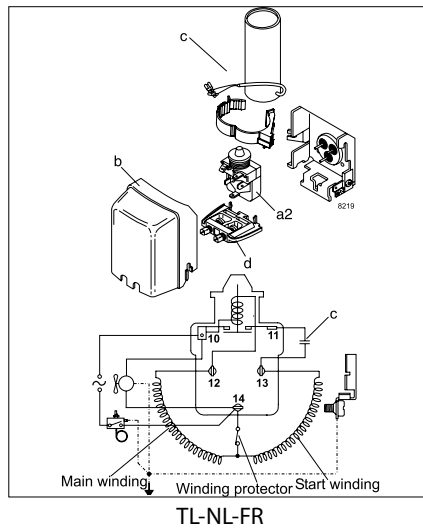
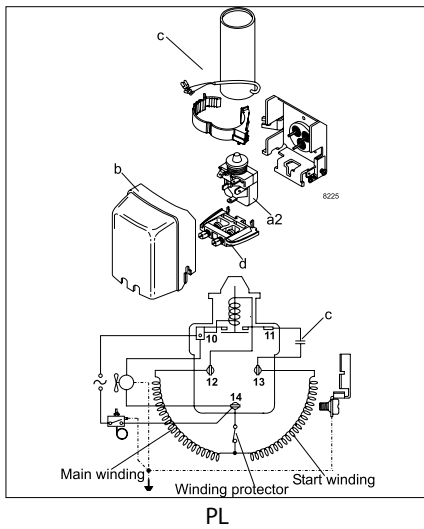


**Note:** On GS34CLX compressors suction and process connectors are interchanged

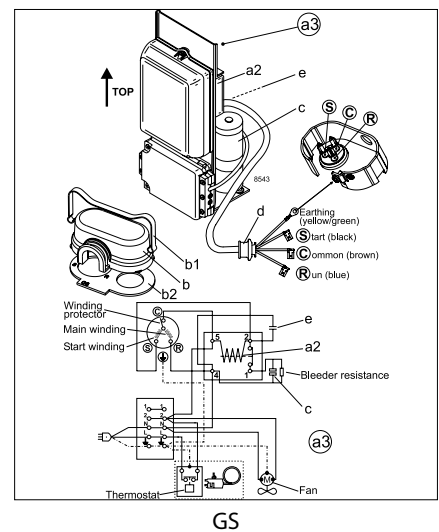
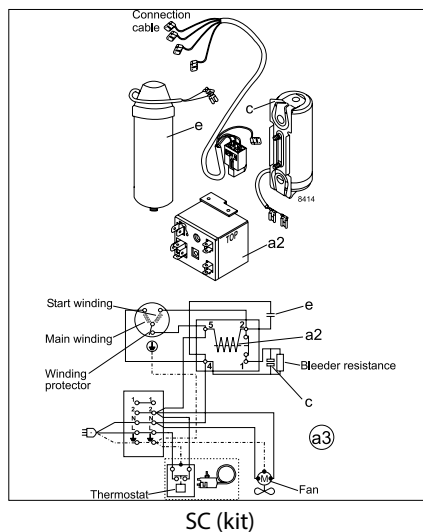
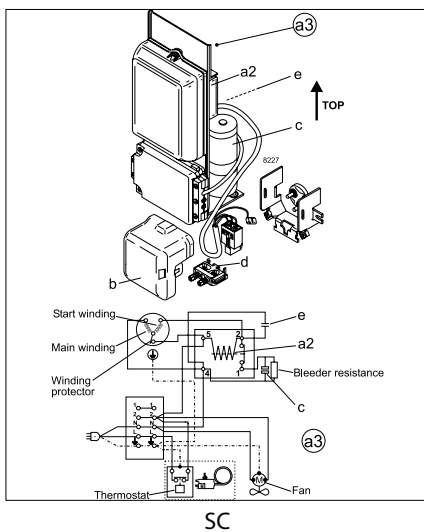
**LST - RSIR**



**HST - CSIR**



**HST - CSR**



**Legend :**

- a1:** PTC starting device
- a2:** Starting relay
- a3:** Starting device

- b:** Cover
- b1:** Clamp (part of compressor)
- b2:** Gasket (part of compressor)
- c:** Starting capacitor

- d:** Cord relief
- e:** Run capacitor

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# 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 spread across three continents.



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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