

Disposal declaration

Frequency Converters Frame Size: C1, C2, C3
and C4

Production Place: Denmark and USA

At Danfoss, we take into account environmental considerations during the design and development of new products. We collect as much reliable data from suppliers as possible to generate lists of materials and disposal instructions.

Ways of dismantling the product depend on national and/or local legislation and the capabilities of the scrapping facilities.

This environmental information about the product is based on existing knowledge and available data.

That Danfoss facility complies with TS 16949 including ISO 9001 and ISO 14001 standards.

Frequency Converters covered:

VLT® AutomationDrive

VLT® HVAC Drive

VLT® AQUA Drive

VLT® Refrigeration Drive

1. PRODUCT INFORMATION BUILD UP AND IDENTIFICATION

Frame size

Voltage rating

Power rating

Product Identification
-Compare unit label with table data


Unit label

VLT® Series

1	Type code
2	Order number
3	Serial number
4	Power rating
5	Input voltage, frequency and current (at low/high voltages)
6	Output voltage, frequency and current (at low/high voltages)
7	Enclosure type and IP rating
8	Maximum ambient temperature
9	Certifications
10	Discharge time (Warning)

VLT®

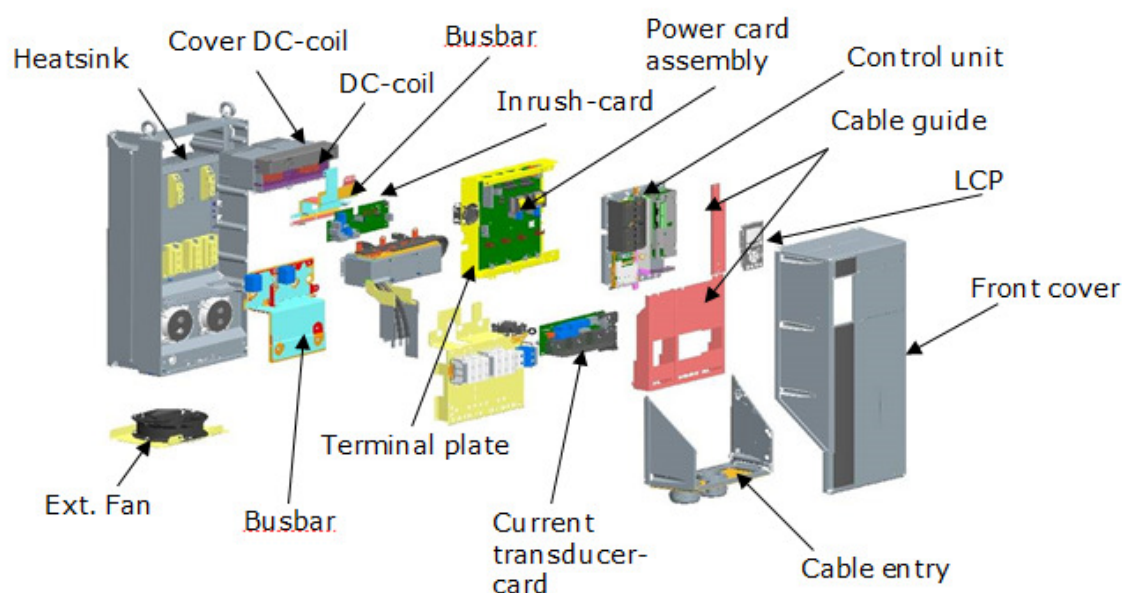
2. MAIN MATERIAL CONTENT FOR C1

Type	C1	FC-301 FC-302 FC-311 FC-312	FC-102 FC-103 FC-202
	S2	15 kW	11-15 kW
	S4		18 kW
	T2	15-22 kW	11-30 kW
	T4,T5,T6	30-45 kW	37-55 kW
			
Material	Content [kg]		(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	17.93		40
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	7.27		16
Copper primary (Cu): Coils/Transformers, Busbar	1.44		3
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	5.79		13
PCFR10(10% glass) Cl and Br	0.81		2
Glass and glassfibres	0.025		0
Pottet parts (Aluminium,Steel, Cooper,Potting material)	10.81		24
Rubber gaskets	0.10		0.2
Other Materials: (For example Ferrit)	0.71		2
Weight of VLT®	44.75		100


Nr of Printed Circuit Assemblies (With LCP, Without option)	6
Number of LCD's (Maximum)	1

3. DRAWINGS

3D drawing representing Frame Size C1:



4. MAIN MATERIAL CONTENT FOR C2:

Type	C2	FC-301 FC-302 FC-311 FC-312	FC-102 FC-103 FC-202
	S2		18-22kW
	S4		37 kW
	T2	30-37 kW	37-45 kW
	T4,T5 T6	55-75kW	75-90 kW
	T7	30-75kW	37-90 kW
			
	Material	Content [Kg]	(%wt)
	Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	27.24	50.1
	Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	8.01	14.8
	Copper primary (Cu): Coils/Transformers, Busbar	2.32	4.3
	Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	8.11	14.9
	PCFR10(10% glass) Cl and Br	0.91	1.7
	Glass and glassfibres	0.025	0
	Pottet parts (Aluminium,Steel, Cooper,Potting material)	14.00	25.8
	Rubber gaskets	0.10	0.2

**Disposal Declaration for VLT Frame Size C
Drawings**

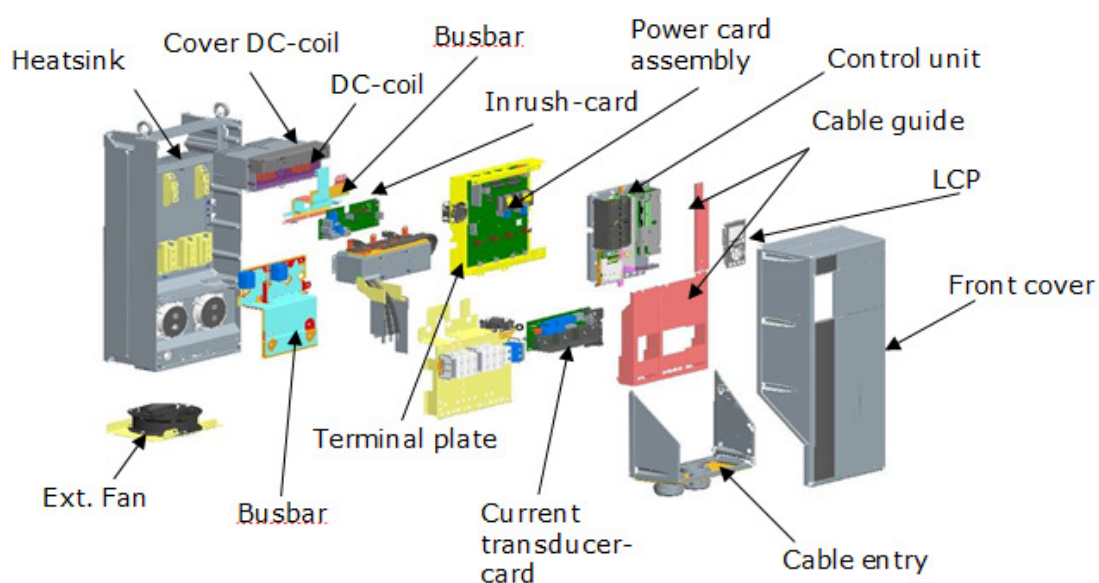
Rev. Sequence: A, 3

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Other Materials: (For example Ferrit)	1.11	2.1
Weight of VLT®	61.9	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	6	
Number of LCD's (Maximum)	1	

5. DRAWINGS

3D drawing representing Frame Size C2:

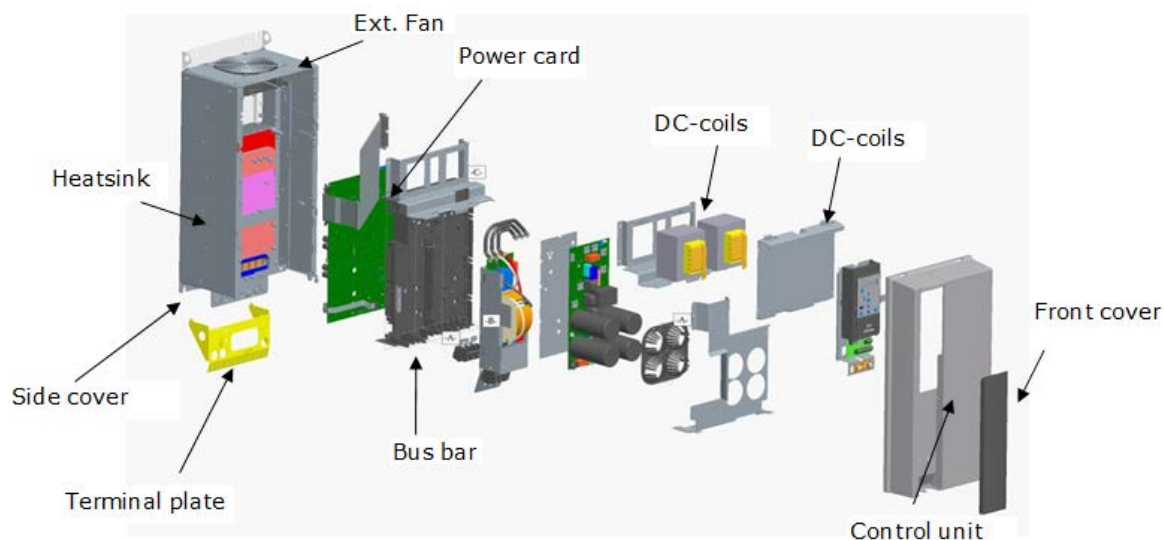


6. MAIN MATERIAL CONTENT FOR C3:

Type	C3	FC-301 FC-302 FC-311 FC-312	FC-102 FC-103 FC-202
	T2	18-22 kW	22-30 kW
	T4,T5, T6	37-45 kW	45-55 kW
	T7	37-45 kW	45-55 kW
			
Material	Content [Kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	4.30	11.8	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	12.70	35.1	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	4.49	12.1	
PCFR10(10% glass) CI and Br	1.78	6.2	
Pottet parts (Aluminium,Steel, Cooper,Potting material)	12.42	34.3	
Rubber gaskets	0.006	0	
Other Materials: (For example Ferrit)	0.27	0,5	
Weight of VLT®	36	100	
Nr of Printed Circuit Assemblies (With LCP, Without option)	5		

7. DRAWINGS


3D drawing representing Frame Size C3:



**Disposal Declaration for VLT Frame Size C
Drawings**

Rev. Sequence: A, 3

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Type	C4	FC-301 FC-302 FC-311 FC-312	FC-102 FC-103 FC-202
	T2	30-37 kW	37-45 kW
	T4,T5	55-75 kW	75-90 kW
	T6	55-75 kW	75-90 kW
			
Material	Content [Kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	6.94	14	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	17.38	35	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	6.90	12.4	
PCFR10(10% glass) Cl and Br	2.37	4.8	
Pottet parts (Aluminium,Steel, Cooper,Potting material)	15.78	31.8	
Rubber gaskets	0.006	0	
Other Materials: (For example Ferrit)	0.27	0.5	
Weight of VLT®	51	100	
Nr of Printed Circuit Assemblies (With LCP, Without option)	5		

8. DRAWINGS

3D drawing representing Frame Size C4:

