



Environmental Product Information I Danfoss Drives

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

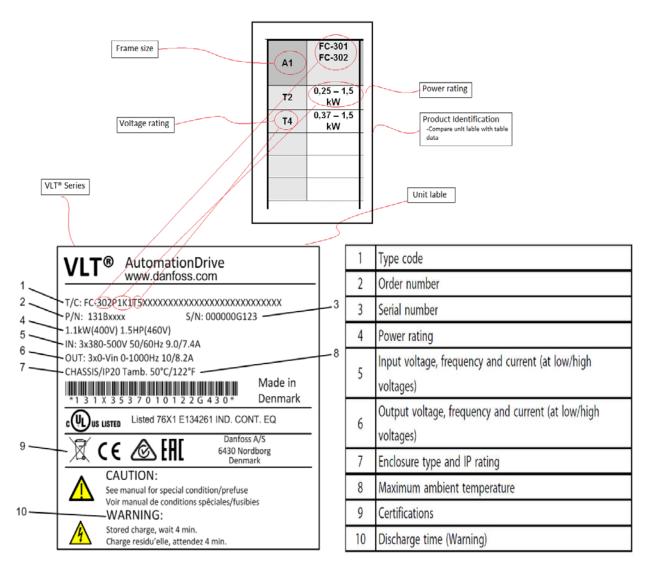
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Document ID: 00731407 Revision, Sequence: A,3 File Origin Date: 2016-05-30 File Last Modified: 2016-06-13



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1. Product information build up and identification







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2. MAIN MATERIAL CONTENT FOR C1

-			
Type		FC-301	FC-102
	C1	FC-302	FC-103
		FC-311	FC-202
		FC-312	
	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 [k	g]	(%wt)
Aluminium primary (AI): Heatsink, Control unit,	Content [k	g]	
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry	Content [k 17.93	gl	(%wt) 40
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers		g]	
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate,	17.93 7.27	g]	40
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	17.93	g]	40
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass)	17.93 7.27 1.44 5.79	gl	40 16 3 13
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br	17.93 7.27 1.44	gl	40 16 3
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres	17.93 7.27 1.44 5.79	gl	40 16 3 13
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres Pottet parts (Aluminium, Steel, Cooper, Potting	17.93 7.27 1.44 5.79 0.81	gl	40 16 3 13 2 0
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres Pottet parts (Aluminium, Steel, Cooper, Potting material)	17.93 7.27 1.44 5.79	gl	40 16 3 13
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets	17.93 7.27 1.44 5.79 0.81	gl	40 16 3 13 2 0
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets Other Materials:	17.93 7.27 1.44 5.79 0.81 0.025 10.81 0.10	gl	40 16 3 13 2 0 24 0.2
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Copper primary (Cu): Coils/Transformers, Busbar Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Glass and glassfibres Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets	17.93 7.27 1.44 5.79 0.81 0.025 10.81	gl	40 16 3 13 2 0 24

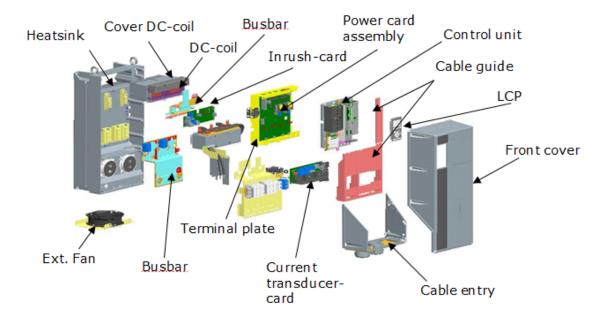


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Nr of Printed Circuit Assemblies (With LCD Without antion)	6
(With LCP, Without option) Number of LCD's (Maximum)	1

3. Drawings

3D drawing representing Frame Size C1:





Disposal Declaration for VLT Frame Size C *Main Material Content for C2:*

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4. MAIN MATERIAL CONTENT FOR C2:

Туре			
Туре		FC-301	FC-102 FC-103
	C2	FC-302	FC-202
		FC-311	
		FC-312	
	S2		18–22kW
	S4		37 kW
	T2	30-37 kW	37–45 kW
	T4,T5	55–75kW	75–90 kW
	Т6		
	Т7	30–75kW	37–90 kW
	12		
Material	Content [Kg]		(%wt)
Aluminium primary (AI): 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	0.91		1./
	0.025		0
Pottet parts (Aluminium, Steel, Cooper, Potting material)	14.00		25.8
Rubber gaskets			



Disposal Declaration for VLT Frame Size C *Drawings*

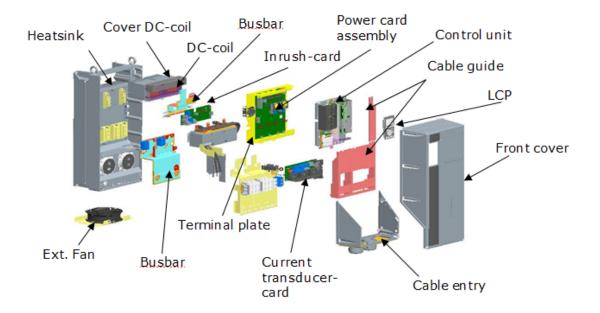
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Other Materials:		
(For example Ferrit)	1.11	2.1
Weight of VLT®		
	61.9	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	6	;
Number of LCD's (Maximum)	1	

5. Drawings

3D drawing representing Frame Size C2:





Disposal Declaration for VLT Frame Size C *Main Material Content for C3:*

Rev. Sequence: A, 3

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6. MAIN MATERIAL CONTENT FOR C3:

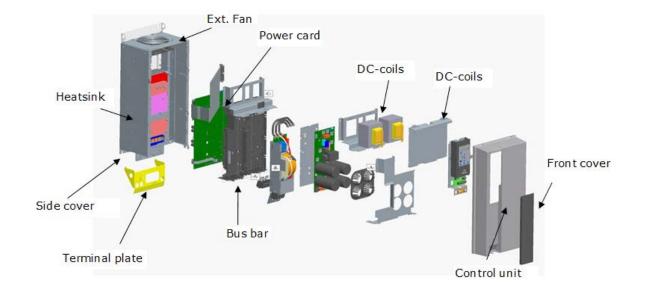
Typo			
Type		FC-301	FC-102 FC-103
	C3	FC-302	FC-202
		FC-311	
		FC-312	
	T2	18-22 kW	22-30 kW
	T4,T5, T6	37-45 kW	45-55 kW
	Т7	37-45 kW	45-55 kW
Material	Content [Kg]		(%wt)
Aluminium primary (AI): Heatsink, Control unit,			
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry	Content [Kg]		(%wt) 11.8
Aluminium primary (AI): Heatsink, Control unit,			
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables	4.30		11.8
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode,	4.30 12.70		11.8 35.1
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Pottet parts (Aluminium, Steel, Cooper, Potting material)	4.30 12.70 4.49		11.8 35.1 12.1
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Pottet parts (Aluminium, Steel, Cooper, Potting	4.30 12.70 4.49		11.8 35.1 12.1 6.2
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets Other Materials:	4.30 12.70 4.49 1.78 12.42 0.006		11.8 35.1 12.1 6.2 34.3
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets Other Materials: (For example Ferrit)	4.30 12.70 4.49 1.78 12.42		11.8 35.1 12.1 6.2 34.3
Aluminium primary (Al): Heatsink, Control unit, Front cover, Cable entry Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers Electronics: Printed Circuit Boards (PCB), Components: RFI, LCP, Terminal plate, Switchmode, Rectifier, Fan, Cables PCFR10(10% glass) Cl and Br Pottet parts (Aluminium, Steel, Cooper, Potting material) Rubber gaskets Other Materials:	4.30 12.70 4.49 1.78 12.42 0.006		11.8 35.1 12.1 6.2 34.3



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7. Drawings

3D drawing representing Frame Size C3:





Disposal Declaration for VLT Frame Size C *Drawings*

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	FC-301	FC-102 FC-103
C4	FC-302	FC-202
	FC-311	
	FC-312	
T2	30-37 kW	37-45 kW
T4,T5	55-75 kW	75-90 kW
Т6	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,	17.38	35
Side Cover, Coils/Transformers		
Electronics: Printed Circuit Boards (PCB),		
Components: RFI,LCP,Terminal plate,Switchmode,	6.90	12.4
Rectifier, Fan, Cables		
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	5	
Assemblies		
(With LCP, Without option)		



File Last Modified: 2016-06-13

8. Drawings

3D drawing representing Frame Size C4:

