

ENGINEERING TOMORROW

Environmental Product Information I Danfoss Drives

Disposal declaration Frequency Converters Frame Size: D1, D2, D3, D4, D5, D6, D7 and D8 (New Generation) Production Place: USA and India

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



Disposal Declaration for VLT Frame Size D (New Generation) Product information build up and identification Rev. Sequence: A, 2 File Last Modified: 2016-06-14

1. PRODUCT INFORMATION BUILD UP AND IDENTIFICATION

A1 72 0,	FC-301 FC-302 25 - 1,5 <u>kW</u> 37 - 1,5 kW	Power rating Product Identification -Compare unit lable with table data Unit lable
VLT [®] AutomationDrive	1	Type code
1 VLI www.dánfoss.com	2	Order number
2 T/C: FC:30201K115XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	_3 3	Serial number
5 1.1kW(400V) 1.5HP(460V)	4	Power rating
6 IN: 3x380-500V 50/60Hz 9.0/7.4A OUT: 3x0-Vin 0-1000Hz 10/8.2A	-8	Input voltage, frequency and current (at low/high
CHASSIS/IP20 Tamb. 50°C/122°F Made in	5	voltages)
	6	Output voltage, frequency and current (at low/high voltages)
9 CE EA EA Contrast A/S 6430 Nordborg Denmark	7	Enclosure type and IP rating
CAUTION: See manual for special condition/prefuse	8	Maximum ambient temperature
Voir manual de conditions spêciales/fusibles	9	
Stored charge, wait 4 min. Charge residu'elle, attendez 4 min.	1) Discharge time (Warning)





Disposal Declaration for VLT Frame Size D (New Generation) Main Material Content for D1 (New Generation) Rev. Sequence: A, 2 File Last Modified: 2016-06-14

2. MAIN MATERIAL CONTENT FOR D1 (NEW GENERATION)

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Туре	D1	FC-301N	FC-102N	
		FC-302N	FC-202N	
	T4,T5	90 – 132 kW	110 – 160 kW	
	T7	55 – 132 kW	75 – 160 kW	
Material	Con	tent [kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	22	2.5	29	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	13.15 16			
Copper primary (Cu): Coils/Transformers, Busbar	2.00 3			
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables),			
Plastics various: (Enclosures)	1.	00	4	

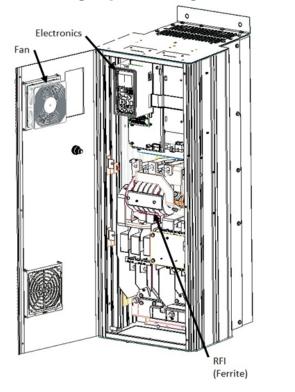


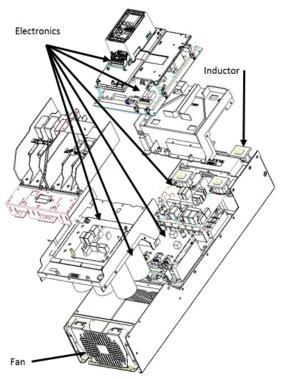
Disposal Declaration for VLT Frame Size D (New Generation) Drawings Rev. Sequence: A, 2 File Last Modified: 2016-06-14

Inductor/Transformer		
	25.00	31
Rubber gaskets		
	1.00	1
Other Materials:		
(For example Ferrit)	2.25	3
Weight of VLT [®]	75	100
Nr of Printed Circuit		
Assemblies		10
(With LCP, Without option)		
Number of LCD's (Maximum)		1

3. DRAWINGS

3D drawing representing Frame Size D1:







Disposal Declaration for VLT Frame Size D (New Generation) *Main Material Content for D2 (New Generation)* Rev. Sequence: A, 2 File Last Modified: 2016-06-14

4. MAIN MATERIAL CONTENT FOR D2 (New GENERATION)

Туре	D2	FC-301N	FC-102N
		FC-302N	FC-202N
	T4,T5	160 – 250 kW	200 – 315 kW
	T7	160 – 315 kW	200 – 355 kW
Material	Con	tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	41	.20	25
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	44	.84	28
Copper primary (Cu): Coils/Transformers, Busbar	4.	00	2
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	16	.30	10
Plastics various: (Enclosures)	2.	20	1

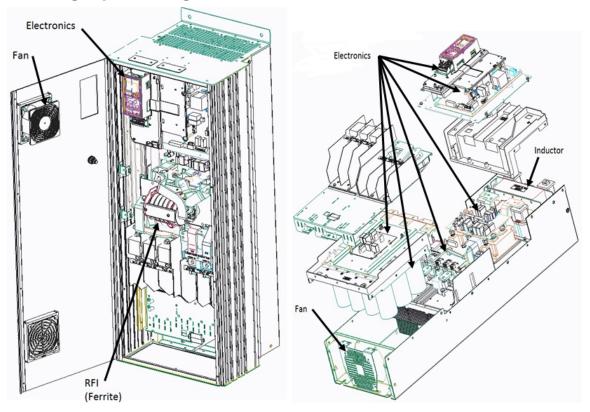


Disposal Declaration for VLT Frame Size D (New Generation) Drawings Rev. Sequence: A, 2 File Last Modified: 2016-06-14

Inductor/Transformer		
	35.00	31
Rubber gaskets		
	2.25	1
Other Materials:		
(For example Ferrit)	3.15	2
Weight of VLT [®]		
	149	100
Nr of Printed Circuit		
Assemblies	1	0
(With LCP, Without option)		
Number of LCD's (Maximum)	1	

5. DRAWINGS

3D drawing representing Frame Size D2:





Disposal Declaration for VLT Frame Size D (New Generation) *Main Material Content for D3 (New Generation)* Rev. Sequence: A, 2 File Last Modified: 2016-06-14

6. MAIN MATERIAL CONTENT FOR D3 (New GENERATION)

	1		
Туре	D3	FC-301N FC-302N	FC-102N FC-202N
	T4,T5	90 – 132 kW	110 – 160 kW
	T7	55 – 132 kW	75 – 160 kW
Material	Con	tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	1	3	18
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	1	5	20
Copper primary (Cu): Coils/Transformers, Busbar		2	3
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	10	D.1	13
Plastics various: (Enclosures)	5	00	7

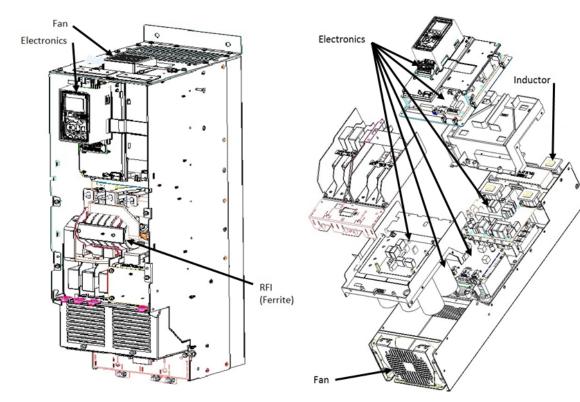


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Inductor/Transformer		
	25.00	35
Rubber gaskets		
	0.0	0
Other Materials:		
(For example Ferrit)	2.25	4
Weight of VLT [®]		
	72	100
Nr of Printed Circuit		
Assemblies	· · · ·	10
(With LCP, Without option)		
Number of LCD's (Maximum)		1

7. DRAWINGS

3D drawing representing Frame Size D3:





Disposal Declaration for VLT Frame Size D (New Generation) *Main Material Content for D4 (New Generation)* Rev. Sequence: A, 2 File Last Modified: 2016-06-14

8. MAIN MATERIAL CONTENT FOR D4 (New GENERATION)

Туре	D4	FC-301N	FC-102N
		FC-302N	FC-202N
	T4,T5	160 – 250 kW	200 – 315 kW
	T7	160 – 315 kW	200 – 355 kW
Material	Con	tent [kg]	
	Con		(7000)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	22	.75	15
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	46	.00	31
Copper primary (Cu): Coils/Transformers, Busbar	4.	00	3



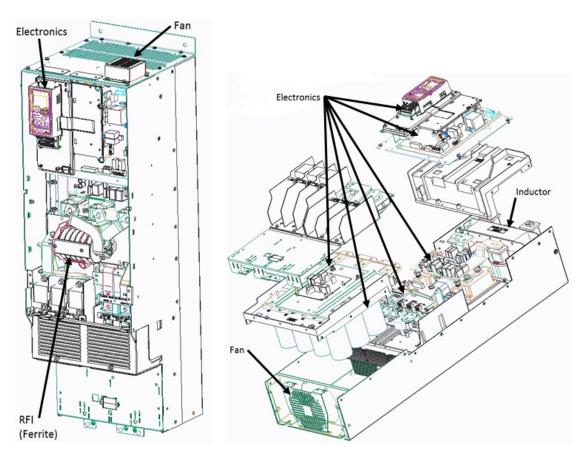
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Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	12.30	8
Plastics various: (Enclosures)	5.00	4
Inductor/Transformer	35.00	34
Rubber gaskets	0.0	0
Other Materials: (For example Ferrit)	3.15	2
Weight of VLT [®]	132	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	10	
Number of LCD's (Maximum)	1	

9. DRAWINGS

3D drawing representing Frame Size D4:





Disposal Declaration for VLT Frame Size D (New Generation) *Main Material Content for D5 (New Generation)* Rev. Sequence: A, 2 File Last Modified: 2016-06-14

10. MAIN MATERIAL CONTENT FOR D5 (New GENERATION)

Туре	D5	FC-301N FC-302N	FC-102N FC-202N
	T4,T5	90 – 132 kW	110 – 160 kW
	T7	55 – 132 kW	75 – 160 kW
Material	Con	tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry		.0	0
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	26	.86	23
Copper primary (Cu): Coils/Transformers, Busbar	6	.2	5



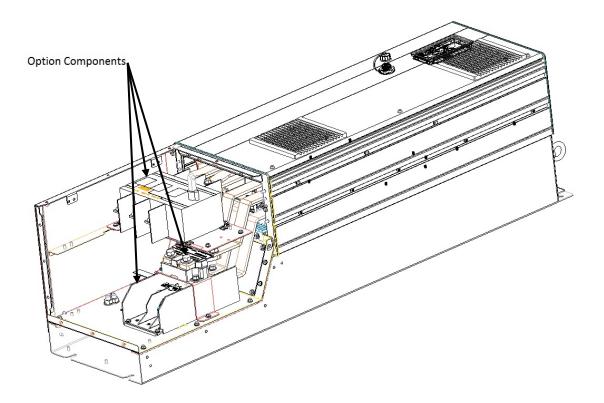
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Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	7.00	6
Plastics various: (Enclosures)	0.3	0.5
Inductor/Transformer		
Rubber gaskets	0.5	0.5
D1 Drive	75	65
Weight of VLT [®]	116	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	11	
Number of LCD's (Maximum)		1

11. DRAWINGS

3D drawing representing Frame Size D5:





Disposal Declaration for VLT Frame Size D (New Generation) *Main Material Content for D6 (New Generation)* Rev. Sequence: A, 2 File Last Modified: 2016-06-14

12. MAIN MATERIAL CONTENT FOR D6 (New GENERATION)

Туре	D6	FC-301N	FC-102N
		FC-302N	FC-202N
	T4,T5	90 – 132 kW	110 – 160 kW
	T7	55 – 132 kW	75 – 160 kW
Material	Con	tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry		.0	0
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	38	3.8	27
Copper primary (Cu): Coils/Transformers, Busbar	12	2.4	9
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	14	4.0	10

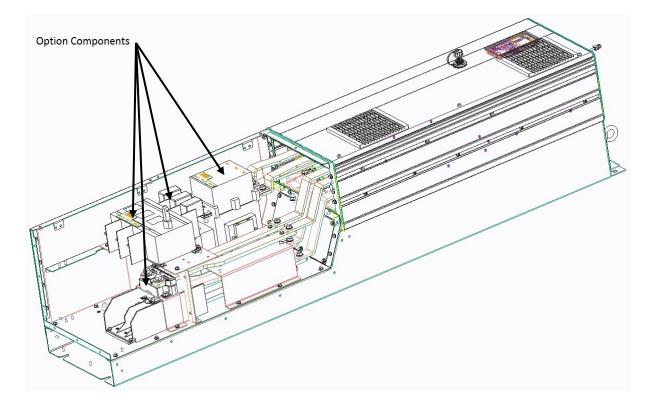


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Plastics various: (Enclosures)		
	0.3	0.5
Inductor/Transformer		
	-	-
Rubber gaskets		
	0.5	0.5
D1 Drive		
	75	53
Weight of VLT [®]		
	141	100
Nr of Printed Circuit		
Assemblies	11	
(With LCP, Without option)		
Number of LCD's (Maximum)	1	

13. DRAWINGS

3D drawing representing Frame Size D6:





Disposal Declaration for VLT Frame Size D (New Generation) Main Material Content for D7 (New Generation) Rev. Sequence: A, 2 File Last Modified: 2016-06-14

14. MAIN MATERIAL CONTENT FOR D7 (New GENERATION)

Туре	D7	FC-301N	FC-102N
		FC-302N	FC-202N
	T4,T5	160 – 250 kW	200 – 315 kW
	T7	160 – 315 kW	200 – 355 kW
Material	Con	tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	0	.0	0
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	38	3.8	27
Copper primary (Cu): Coils/Transformers, Busbar	12	2.4	9
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	14	4.0	10
Plastics various: (Enclosures)	0	.3	0.5

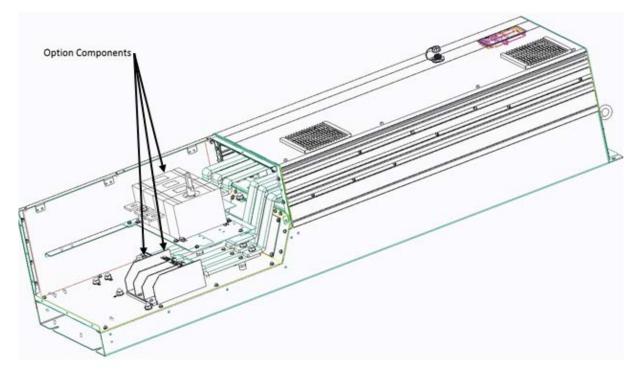


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Inductor/Transformer		
Rubber gaskets	-	-
	0.5	0.5
D2 Drive		
	75	53
Weight of VLT [®]		
	141	100
Nr of Printed Circuit		
Assemblies	11	
(With LCP, Without option)		
Number of LCD's (Maximum)	1	

15. DRAWINGS

3D drawing representing Frame Size D7:





Disposal Declaration for VLT Frame Size D (New Generation) Main Material Content for D8 (New Generation) Rev. Sequence: A, 2 File Last Modified: 2016-06-14

16. MAIN MATERIAL CONTENT FOR D8 (New GENERATION)

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Туре	D8	FC-301N	FC-102N
		FC-302N	FC-202N
	T4,T5	160 – 250 kW	200 – 315 kW
	T7	160 – 315 kW	200 – 355 kW
Material		tent [kg]	(%wt)
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry		.0	0
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	56	5.7	23
Copper primary (Cu): Coils/Transformers, Busbar	17	7.7	7
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	18	3.0	7
Plastics various: (Enclosures)	0	.5	1



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Inductor/Transformer			
Rubber gaskets	-	-	
	0.5	1	
D2 Drive			
	149	61	
Weight of VLT [®]			
	242	100	
Nr of Printed Circuit			
Assemblies	1	11	
(With LCP, Without option)			
Number of LCD's (Maximum)		1	

17. DRAWINGS

3D drawing representing Frame Size D8:

