

Disposal declaration

Frequency Converters Frame Size: D1, D2, D3,
D4 (Standard Design)

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® Automation Drive

VLT® HVAC Drive

VLT® AQUA Drive

VLT® Refrigeration Drive

1. PRODUCT INFORMATION BUILD UP AND IDENTIFICATION

Frame size	A1	FC-301 FC-302
Voltage rating	T2	0.25 – 1,5 kW
	T4	0.37 – 1.5 kW

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® AutomationDrive
www.danfoss.com

1 T/C: FC-302P1K1T5XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 2 P/N: 131Bxxxx S/N: 00000G123
 4 1.1kW(400V) 1.5HP(460V)
 5 IN: 3x380-500V 50/60Hz 9.0/7.4A
 6 OUT: 3x0-Vin 0-1000Hz 10/8.2A
 7 CHASSIS/IP20 Tamb. 50°C/122°F

3
8

9
10

Made in Denmark

UL LISTED Listed 76X1 E134261 IND. CONT. EQ


CE EAC Danfoss A/S
6430 Nordborg
Denmark

CAUTION:
See manual for special condition/prefuse
Voir manuel de conditions spéciales/fusibles

WARNING:
Stored charge, wait 4 min.
Charge résidu'elle, attendez 4 min.



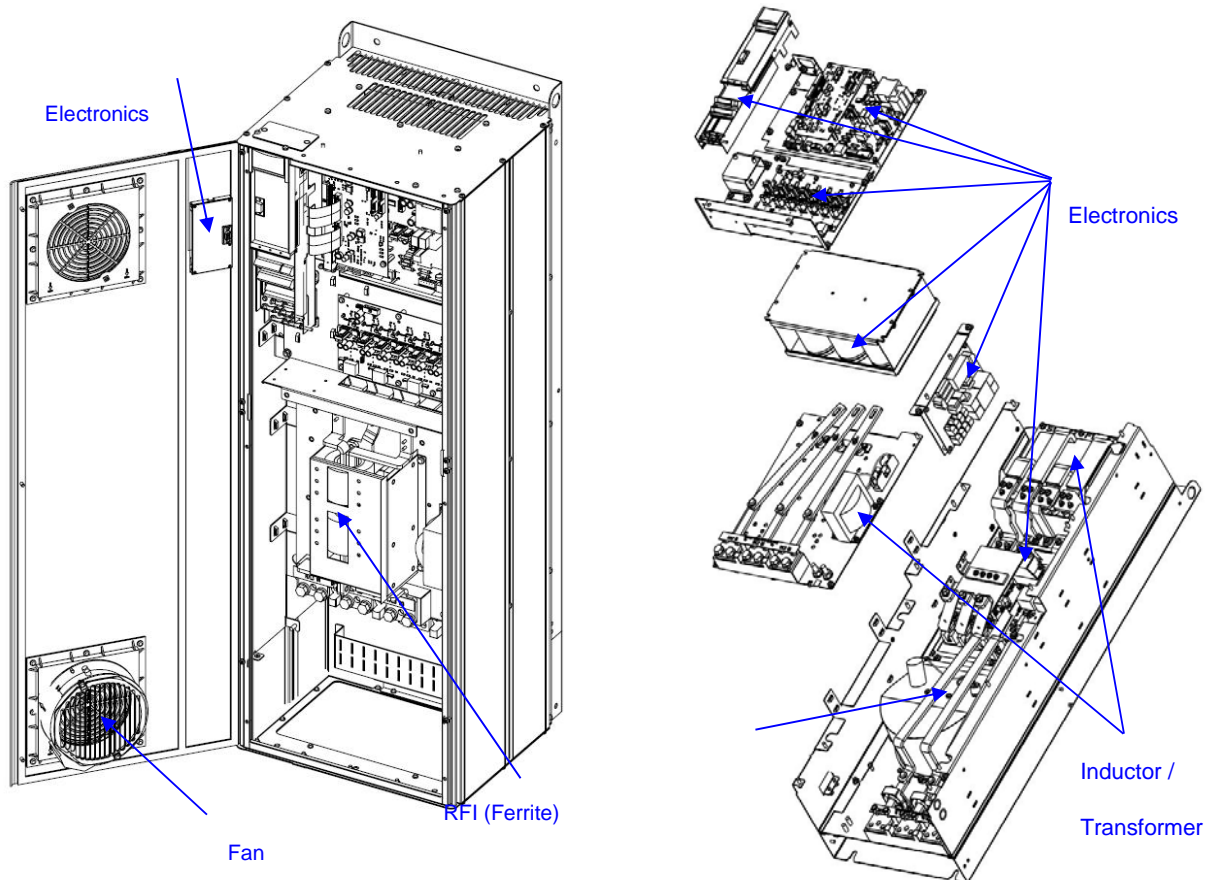
2. MAIN MATERIAL CONTENT FOR D1 (STANDARD DESIGN)

Type	D1	FC-301P FC-302P	FC-102P FC-202P
	T4,T5	90 – 110 kW	110 – 132 kW
	T7	37 – 132 kW	45 – 160 kW
			
Material	Content [kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	26.00	25	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	36.40	35	
Copper primary (Cu): Coils/Transformers, Busbar	1.04	1	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	11.44	11	
Plastics various: (Enclosures)	5.2	5	
Inductor/Transformer	19.76	19	


Rubber gaskets	2.08	2
Other Materials: (For example Ferrit)	2.08	2
Weight of VLT®	104	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	10	
Number of LCD's (Maximum)	1	

3. DRAWINGS

3D drawing representing Frame Size D1



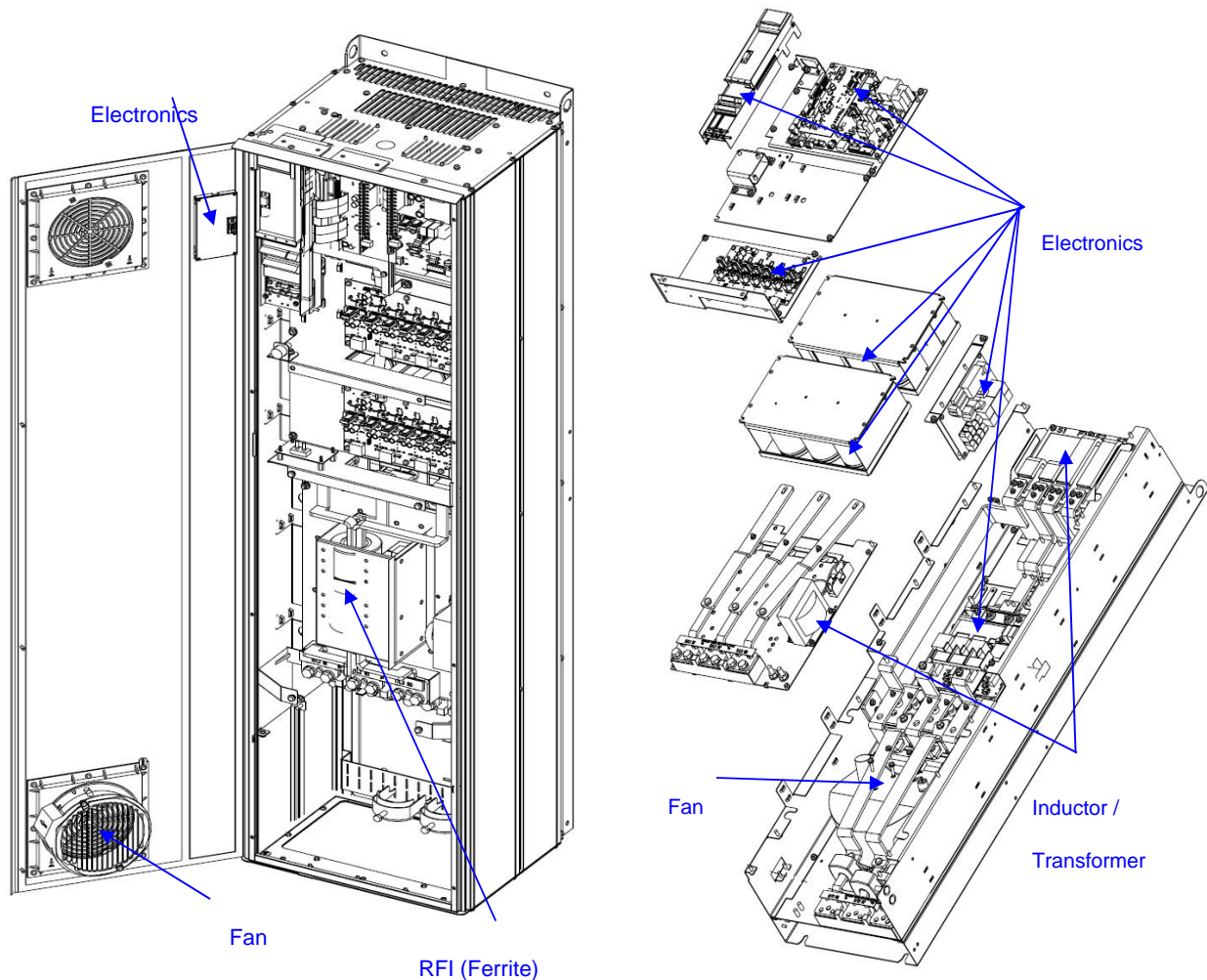
4. MAIN MATERIAL CONTENT FOR D2 (STANDARD DESIGN)

Type	D2	FC-301P FC-302P	FC-102P FC-202P
	T4,T5	132 – 200 kW	160 – 250 kW
	T7	160 – 315 kW	200 – 400 kW
			
Material	Content [kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	24.49	15	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	53.16	32	
Copper primary (Cu): Coils/Transformers, Busbar	21.28	13	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	21.31	13	
Plastics various: (Enclosures)	7.28	5	


Inductor/Transformer	26.82	16
Rubber gaskets	2.25	1
Other Materials: (For example Ferrit)	3.15	2
Weight of VLT®	165	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	13	
Number of LCD's (Maximum)	1	

5. DRAWINGS

3D drawing representing Frame Size D2:



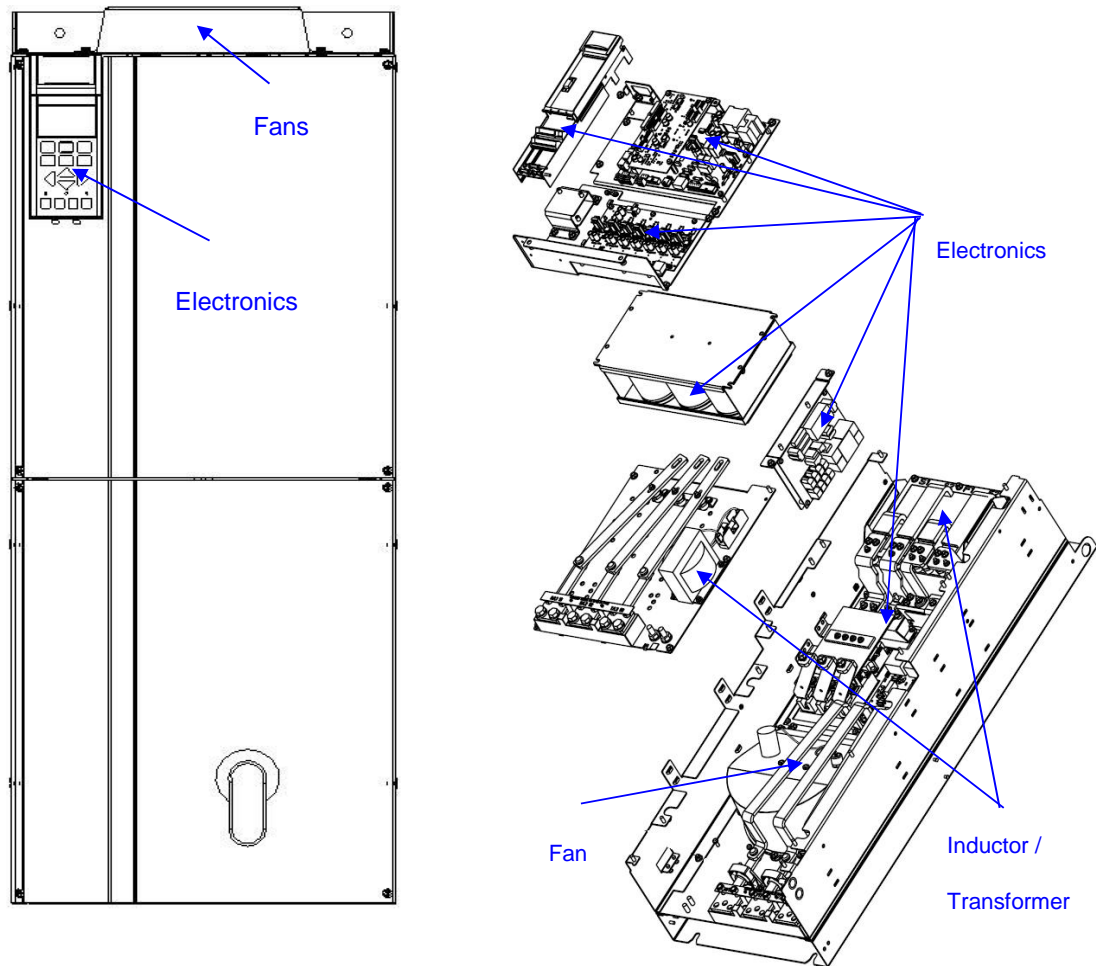
6. MAIN MATERIAL CONTENT FOR D3 (STANDARD DESIGN)

Type	D3	FC-301P FC-302P	FC-102P FC-202P
	T4,T5	90 – 110 kW	110 – 132 kW
	T7	37 – 132 kW	45 – 160 kW
			
Material	Content [kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	13.65	15	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	40.04	44	
Copper primary (Cu): Coils/Transformers, Busbar	0.91	1	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	11.83	13	
Plastics various: (Enclosures)	2.73	3	
Inductor/Transformer	19.11	21	
Rubber gaskets	0.91	1	
Other Materials: (For example Ferrit)	1.82	2	


Weight of VLT®	91	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	10	
Number of LCD's (Maximum)	1	

7. DRAWINGS

3D drawing representing Frame Size D3:



8. MAIN MATERIAL CONTENT FOR D4 (STANDARD DESIGN)

Type	D4	FC-301P FC-302P	FC-102P FC-202P
	T4,T5	132 – 200 kW	160 – 250 kW
	T7	160 – 315 kW	200 – 400 kW
			
Material	Content [kg]	(%wt)	
Aluminium primary (Al): Heatsink,Control unit, Front cover, Cable entry	10.57	7	
Iron/Steel primary (Fe): Terminal Plate, Side Cover, Coils/Transformers	119.29	79	
Copper primary (Cu): Coils/Transformers, Busbar	3.02	2	
Electronics: Printed Circuit Boards (PCB), Components: RFI,LCP,Terminal plate,Switchmode, Rectifier, Fan,Cables	6.04	4	
Plastics various: (Enclosures)	1.51	1	
Inductor/Transformer	7.55	5	
Rubber gaskets	1.51	1	

Other Materials: (For example Ferrit)	1.51	1
Weight of VLT®	151	100
Nr of Printed Circuit Assemblies (With LCP, Without option)	13	
Number of LCD's (Maximum)	1	

9. DRAWINGS

3D drawing representing Frame Size D4:

