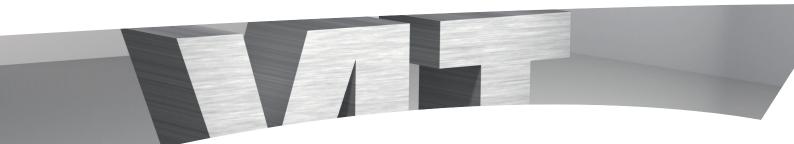
Danfoss



VLT® Decentral FCD 300



The perfect solution for:

- Installations in wash-down areas
- Material handling
- Widely distributed applications
- Application modules often applied to different set-ups

Power range

0.37 – 3.3 kW, 3 x 380 – 480 V

Enclosure IP66

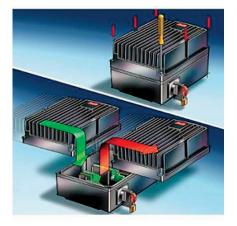
The VLT[®] Decentral FCD 300 is a complete frequency converter designed for decentral mounting. It can be mounted on a wall close to the motor, or directly on the motor.

The VLT[®] Decentral FCD 300 comes in a high enclosure class, with a robust painted surface to withstand normal cleaning methods. The design offers a smooth cleaning-friendly surface without any difficult to clean spots. The decentral design reduces the need for central control panels and space-consuming motor control cabinets are eliminated. In addition, the need for wiring long screened motor cables is reduced.

Features	Benefits					
User-friendly	- Save commissioning and operating cost					
 Adapts to any brand of motor and geared motor 	Easy and flexible installation					
• Designed for power and fieldbus looping	Cable savings					
Visible LEDs	Easy status check					
 Set-up and controlled through a remote control panel or fieldbus communication and dedicated MCT 10 set-up software 	Easy commissioning					
•						
Reliable	- Maximum up-time					
Reliable • Special surface treatment as protection against aggressive environments	Maximum up-time Easy cleaning; no dirt trap					
Special surface treatment as protection	·					
 Special surface treatment as protection against aggressive environments Twin part design (installation box and 	Easy cleaning; no dirt trap					

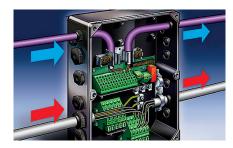






Plug-and-drive

The bottom section contains maintenance-free Cage Clamp connectors and looping facilities for power and fieldbus cables well protected against dust, hosing and cleaning agents. Once installed, commissioning and upgrading can be performed in no time by plugging in another control lid.



Flexible installation

The FCD 300 series facilitates internal power line and fieldbus looping. Terminals for 4 mm² power cables inside the enclosure allows connection of up to 10+ units.

Available options

- Service switch
- M12 connectors for sensor input
- Harting 10E motor plug
- Dynamic braking
- 24 V back up of control and communication

Specifications

- Mains supply (L1, L2, L3)						
	2 ~ 280/400/415/440/480\/ + 10%					
Supply voltage	3 x 380/400/415/440/480V ±10%					
Supply frequency	50/60 Hz					
Max. imbalance on supply voltage	±2.0% of rated supply voltage 2 times/min.					
Switching on input supply Power Factor (cos φ)						
	0.9 / 1.0 at rated load					
Output data (U, V, W)						
Output voltage	0–100% of supply					
Overload torque	160% for 60 sec.					
Switching on output	Unlimited					
Ramp times	0.02 - 3600 sec.					
Output frequency	0.2 - 132 Hz, 1 - 1000 Hz					
Digital inputs						
Programmable digital inputs	5					
Voltage level	0-24 V DC (PNP positive logic)					
Analog inputs						
Analog inputs	2 (1 voltage, 1 current)					
Voltage level/Current level	$0-\pm 10$ V DC / 0/4–20 mA (scaleables)					
Pulse inputs						
Programmable pulse inputs	2 (24 V DC)					
Max. frequency	110 kHz (push-pull) / 5 kHz (open collector)					
	To kitz (push-pull) / 5 kitz (open collector)					
Analog output						
Programmable analog output	1					
Current range	0/4–20 mA					
Digital output						
Programmable digital/frequency output	1					
Voltage/frequency level	24 V DC / 10 kHz (max.)					
Relay output						
Programmable relay output	1					
Max. terminal load	250 V AC, 2 A, 500 VA					
Fieldbus communication						
FC Protocol, Modbus RTU, Metasys N2	Built-in					
Profibus DP, DeviceNet, AS-interface	Optional (integrated)					
Externals						
Vibration test	1.0 g (IEC 60068)					
Max. relative humidity	95 % (IEC 60068-2-3)					
Ambient temperature	Max. 40 $^{\circ}$ C (24 hour average max. 35 $^{\circ}$ C)					
Min. ambient temperature in full operation	0°C					
Min. ambient temperature at reduced						
performance	-10°C					
Approvals * Contact Danfoss for details	CE, UL, C-tick, ATEX*					

Technical data

VLT® Decentr	al FCD	303	305	307	311	315	322	330	335*	
Output current (3 x 380–480 V)	I _{INV (60s)} [A]	1.4	1.8	2.2	3.0	3.7	5.2	7.0	7.6	
	IMAX (60s) [A]	2.2	2.9	3.5	4.8	5.9	8.3	11.2	11.4	
Output power (400 V)	SINV [KVA]	1.0	1.2	1.5	2.0	2.6	3.6	4.8	5.3	
Typical shaft output	Рм, N [kW]	0.37	0.55	0.75	1.1	1.5	2.2	3.0	3.3	
	Р _{м,N} [HP]	0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	
Mechanical dimensions	Motor mounting	244 x 192 x 142					300 x 258 x 151			
H x W x D (mm)	Stand alone	300 x 192 x 145					367	367 x 258 x 154		

* tamb max. 35 °C

Danfoss Drives, Ulsnaes 1, DK-6300 Graasten, Denmark, Tel. +45 74 88 22 22, Fax +45 74 65 25 80, www.danfoss.com/drives • E-mail: info@danfoss.com

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