

VLT® Decentral Drive FCD 302

The VLT® Decentral Drive FCD 302 is the new generation of the VLT® Decentral FCD 300, based on the VLT® AutomationDrive FC 302 platform. It combines the key features of both products in a completely re-designed enclosure, made for best fit on direct machine mounting.



Simplicity and robustness have been taken into consideration during the design of the new VLT® Decentral Drive FCD 302, resulting in a real user-friendly product, with high performance and the highest protection degree.

Decentral drives are meant for de-located mounting, where the need for space-consuming control cabinets is eliminated. With the drives placed near – or directly on – the motor, there is no need for long screened motor cables.

One-box concept

All options are built as part of the unit, reducing the number of boxes to be mounted, connections and terminations in the installation.

Consequently labor costs in mounting hours and risk of failures are dramatically reduced.

Power range:

0.37 - 3 kW, 3 x 380 - 480 V

Enclosure:

- IP66 standard black
- IP66 standard white
- IP69K hygienic white (all enclosures are rated as Type 4X)

Perfect

match for:

- Conveyor applications
- Installation in wash-down areas
- Widely distributed applications, with large number of drives

Features	Benefits
Reliable	Maximum up time
Special painting treatment and smooth surface	Easy cleaning; no dirt trap
Pluggable twin-part design (installation box and electronic part)	Easy and fast service
Integrated lockable service switch available	Local disconnection possible
User friendly	Save commissioning and operation cost
Adapts to any brand of motor and geared motor, induction as well as permanent magnet motors	Easy and flexible installation
Integrated power and fieldbus looping terminals	Cable savings
Visible LEDs	Quick status check
Set-up and controlled through pluggable control panel, fieldbus communication and MCT10 PC software	Easy commissioning
Awarded control panel with on-board manual	Easy operation
Screwless spring-loaded terminals	Easy and fast connection
Integrated USB port	Direct connection to PC
Intelligent	Built-in feature
Smart Logic Control	Reduces need for PLC capacity
Safe Stop, STO: Safe Torque Off	Reduces the need for extra components
Intelligent warning systems	Warning before controlled stop





Integrated 24V supply

24 V DC control supply is provided by the drive. Separate supply terminals have been made for remote I/Os distribution.

Power looping

The new FCD 302 facilitates internal power looping. Terminals for 6 mm² power cable inside the enclosure allows connection of multiple units in the same branch.

Ethernet switch

Two RJ-45 ports are available in the drive for easy daisy chaining of Ethernet communication.

Fieldbus options

- PROFIBUS DP
- PROFINET
- EtherNet/IP

Application options

- Encoder
- Resolver
- Functional Safety

Hardware options

- Mounting brackets
- Service switch
- Internal circuit breaker
- M12 sensor plugs
- 24 V DC input for control supply
- Brake chopper
- Electromechanical brake control and supply

Specifications

-	
Mains supply (L1, L2, L3)	
Supply voltage	380 – 480 V ±10%
Supply frequency	50/60 Hz
True Power Factor (λ)	0.92 nominal at rated load
Displacement Power Factor (cos φ)	(>0.98)
Switching on input supply	2 times/min.

Output data (U, V, W)	
Output voltage	0 – 100% of supply
Output frequency	0 – 1000 Hz 0 – 300 Hz (Flux mode)
Switching on output	Unlimited
Ramp times	0.01 – 3600 sec.

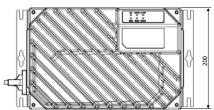
Digital inputs		
Programmable digital inputs	4 (6)	
Logic	PNP or NPN	
Voltage level	0 – 24 V DC	
Voltage level	0 – 24 V DC	

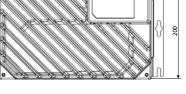
Note: One/two digital inputs can be programmed as digital output		
Analogue inputs		
Number of analogue inputs	2	
Modes	Voltage or current	
Voltage level	-10 to +10 V (scaleable)	
Current level	0/4 – 20 mA (scaleable)	
Pulse/encoder inputs		
r disc/circoder inputs		
Programmable pulse/encoder inputs	2	
·	2 0 – 24 V DC (PNP positive logic)	
Programmable pulse/encoder inputs	-	

Voltage level at digital/frequency output	0 – 24 V
Analogue output	
Programmable analogue outputs	1
Current range	0/4 – 20 mA
Relay outputs	
Relay outputs Programmable relay outputs	2
	2

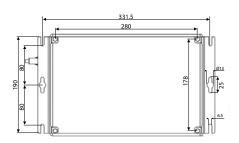
Dimensions

Small frame size (0.37 – 2.2 kW)





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All measurements are in mm