

VLT® 2800 Series



The VLT® 2800 series has been developed for the low power market. The drive is extremely compact and prepared for side-by-side mounting. The concept is modular with a power module and a control module.

The VLT® 2800 series is designed for stable operation in industrial environments

The perfect solution for:

- Conveyors, centrifuges, dosing pumps, compressors
- Special applications like cutting machines with constant speed, and packaging machines with a need for high precision.

Power range:

1/3 x 200 – 240 V: 0.37 – 3.7 kW 3 x 380 – 480 V: 0.55 – 18.5 kW

With 160% overload torque (normal overload)

Features	Benefits
Automatic Motor Tuning	 Ensure optimal match between drive and motor Increasing performance
• PID-controller	Optimum process control
Interrupt start/stop	High repeatability of positional accuracy
Dry run detection	No need for specific detection equipment
Fieldbus communication	 Allows for control and surveillance of the drives from a PC or a PLC Profibus and DeviceNet are available

	Profibus and Devicement are available
Reliable	Maximum up-time
Built-in RFI filter	 Compliance with the EMC standard EN 55011 1A
Enhanced sleep mode	 Excellent control for shutting down the pump at low flow
Max. ambient temperature 45° Celsius without derating	 No external cooling or oversizing necessary
User-friendly	Save commissioning and

User-friendly	Save commissioning and operating cost
Quick Menu	• Easy to use
Pipe Fill mode	Prevents water hammering
Fieldbus communication	 Allows for control and surveillance of the drives from a PC or a PLC Profibus and DeviceNet are available





PC software tools

• MCT 10

- Ideal for commissioning and servicing the drive

MCT 31

- Harmonics calculations tool

RFI filter

The RFI filter ensures that the frequency converter will not disrupt other electrical components that are connected to the mains and might cause operating disruption.

By fitting an RFI 1B filter module between the mains supply and the VLT® 2800, the solution complies with the EMC norm EN 55011-1B.

		Power	Input o	urrent
Mains	Туре	P _{N,M} [kW]	I _{INV} [A]	I _{L,N} [A]
	2803	0.37	2.2	5.9
<u>é</u>	2805	0.55	3.2	8.3
%	2807	0.75	4.2	10.6
1 × 220 – 240 V	2811	1.1	6.0	14.5
52	2815	1.5	6.8	15.2
×	2822*	2.2	9.6	22.0
-	2840*	3.7	16.0	31.0
	2803	0.37	2.2	2.9
é	2805	0.55	3.2	4.0
24	2807	0.75	4.2	5.1
	2811	1.1	6.0	7.0
3 × 200 – 240 V	2815	1.5	6.8	7.6
×	2822	2.2	9.6	8.8
_ m	2840	3.7	16.0	14.7
	2805	0.55	1.7	1.6
	2807	0.75	2.1	1.9
	2811	1.1	3.0	2.6
>	2815	1.5	3.7	3.2
🕸	2822	2.2	5.2	4.7
3 x 380 – 480 V	2830	3.0	7.0	6.1
8	2840	4.0	9.1	8.1
l x	2855	5.5	12	10.6
m m	2875	7.5	16	14.9
	2880	11.0	24	24.0
	2881	15.0	32	32.0
	2882	18.5	37.5	37.5

^{*} Not available with RFI filter

Specifications

Mains supply (L1, L2, L3)

Supply voltage	200 – 240 V ±10%, 380 – 480 V ±10%
Supply frequency	50/60 Hz
Displacement Power Factor (cos φ) near unity	(> 0.98)
Switching on input supply L1, L2, L3	1 – 2 times/min.
Output data (U, V, W)	
Output voltage	0 – 100% of supply
Switching on output	Unlimited
Ramp times	1 – 3600 sec.
Closed loop	0 – 132 Hz
Digital inputs	
For start/stop, reset, thermistor, etc.	5
Logic	PNP or NPN
Voltage level	0 – 24 VDC
Digital outputs	
No. of digital outputs	1
Analogue inputs	
No. of analogue inputs	2
Voltage level	-10 to +10 V (scaleable)
Current level	0/4 to 20 mA (scaleable)
Pulse inputs	
No. of pulse inputs	2
Voltage level	0 – 24 VDC (PNP positive logic)
Pulse input accuracy	(0.1 – 110 kHz)

Analogue outputs		
Programmable analogue outputs	1	
Current range at analogue output	0/4 – 20 mA	
Relay outputs		
No. of relay outputs	1	

Fieldbus communication

RS485

Ambient temperature

50°C

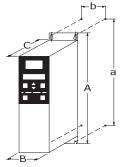
Cabinet sizes [mm]

Height В C D A: 200 267.5 267.5 505 a: 191 257 257 490 Width

B: 75 90 140 200 70 120 120 b: Depth

168 C: 168 168 244





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