



VLT® 2800 Series

The VLT® Series 2800 available in the power range from 0.37 kW-18.5 kW suits all industrial applications

We are the Frequency Converter specialist - our knowledgeable sales & service staff offer comprehensive application support, worldwide service and hotline support around the clock.

We offer Drives solutions - with our application options and serial communication cards as well as our close co-operation with Danfoss Bauer manufacturing geared motors we offer exactly the combination of drive, option and motor that meets your requirements.

Benefits:

- Saves space and energy – the compact size saves valuable space. The perfect speed matching to actual load reduces your energy costs.
- Easy to commission and use - If you know one drive you also know the others and a Quick

Menu guides you easily through the little programming work left for you to make the drive perfect for the job in your plant.

- Precise stop - Ensures perfect stop each time. Choose between three variants: Precise stop, counter stop or speed compensated stop.
- Build-in wobble function for textile industry
- PID controller built-in – ensures optimum process all the way
- AMT – Automatic Motor Tuning – ensures the best torque performance of the motor in any application
- Safety is integrated – No need for extra safety precautions, the power section is galvanically isolated from control section
- Well proved - VLT 2800 series has been more than 5 years on the market.

Enclosures

IP20, Optional IP21 and NEMA1 for better protection.

Compliance with international standards

Built-in RFI filters available for the entire product range complying with EN55011, class 1A and B.

Complies also with IEC 61000-3-2 as well as VDE 0160 as regards levels of harmonic suppression. That reduces the dimensions of cables substantially.





Fieldbus communication

We offer a wide range of standard industrial busses:

- PROFIBUS
- DeviceNet,
- Modbus RTU (standard)

RS 485 serial port as standard

Hardware Variants

- Built-in brake chopper

Technical Specification

Line voltage 1 x 220-240V ± 10%
3 x 200-240V ± 10%
3 x 380-480V ± 10%

Supply frequency 50/60 Hz ± 3Hz

Overload torque 150-160%

True power factor, 0.90 at rated load

Displacement power factor >0.98

Control characteristics

Frequency range 0-1000 Hz

Speed accuracy (open loop)

150-3600 rpm: max error ± 23 rpm of actual speed

Speed accuracy (closed loop)

30-3600 rpm: max error ± 7.5 rpm of actual speed

Inputs and outputs

5 digital inputs (0-24V)

1 analogue output (2 x 0/4-20 mA)

1 digital output (0-24V)

2 analogue inputs (2 x 0-10V,
1 x 0/4-20 mA)

1 24V DC relay output

Technical data, mains supply 3 x 200-240V

	Type	2803	2805	2807	2811	2815	2822	2840
Output current	I_{INV} [A]	2.2	3.2	4.2	6.0	6.8	9.6	16
(3 x 200-240V)	I_{MAX} (60s)	3.5	5.1	6.7	9.6	10.8	15.3	25.6
Typical shaft output	$P_{M,N}$ [kW]	0.37	0.55	0.75	1.1	1.5	2.2	3.7
Typical shaft output	$P_{M,N}$ [HP]	0.5	0.75	1.0	1.5	2.0	3.0	5.0
Input current	$I_{L,N}$ [A]	5.9	8.3	10.6	14.5	15.2	-	-
(1 x 220-240V)	$I_{L,MAX}$ (60s)	9.4	13.3	16.7	23.2	24.3	-	-
Input current	$I_{L,N}$ [A]	2.9	4.0	5.1	7.0	7.6	8.8	14.7
(3 x 200-240V)	$I_{L,MAX}$ (60s)	4.6	6.4	8.2	11.2	12.2	14.1	23.5

Technical data, mains supply 3 x 380-480V

	Type	2805	2807	2811	2815	2822	2830	2840	2855	2875	2880	2881	2882
Output current	I_{INV} [A]	1.7	2.1	3.0	3.7	5.2	7.0	9.1	12	16	24	32	37.5
(3 x 380-480V)	I_{MAX} (60s)	2.7	3.3	4.8	5.9	8.3	11.2	14.5	19.2	25.6	38.4	51.2	60.0
Typical shaft output	$P_{M,N}$ [kW]	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11.0	15.0	18.5
Typical shaft output	$P_{M,N}$ [HP]	0.75	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10.0	15.0	20.0	25.0
Input current	$I_{L,N}$ [A]	1.6	1.9	2.6	3.2	4.7	6.1	8.1	10.6	14.9	24.0	32.0	37.5
(3 x 380-480V)	$I_{L,MAX}$ (60s)	2.6	3.0	4.2	5.1	7.5	9.8	13.0	17.0	23.8	38.4	51.2	60

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