

## VLT<sup>®</sup> 5000 Series



The VLT Series 5000 available  
in the power range from  
1 HP-600 HP  
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.
- Multi-Setup – The drive has four independent setups. Each one can be programmed for the application in question . You can also program 4 different settings for the same motor.
- PID controller built-in – ensures optimum process all the way
- AMA – Automatic Motor Adaptation – ensures the best possible 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

### Enclosures

Chassis, IP20, NEMA1 and NEMA12. Optional coating providing extra protection for aggressive environments.

### Compliance with international standards

Built-in RFI filters available for the entire product range complying with EN55011, class 1A and 1B. Complies also with IEC 61000-3-2 and 61000-3-4 as well as VDE 0160 as regards levels of harmonic suppression. That reduces the dimensions of cables substantially.

### Product range:

380-500V:	1-600 HP with 110% overload torque 1-500 HP with 160/150% overload torque depending on power size
200-240V:	1-60 HP with 110% overload torque 1-50 HP with 160/150% overload torque depending on power size

### Fieldbus communication

We offer a wide range of standard industrial busses:

- PROFIBUS,
- INTERBUS,
- DeviceNet,
- LonWorks,
- ModbusPlus
- Modbus RTU

RS 485 serial port as standard

Contact Esys for more information about this product:

Esys<sup>®</sup> The Energy Control Company<sup>™</sup>  
4520 Stine Road, Ste 7  
Bakersfield, CA 93313  
(661) 833-1902

email: [esys@esys.us](mailto:esys@esys.us)

website: <http://www.esys.us>



### Application options

SyncPos Motion Controller, Synchronizing Controller, Positioning Controller

### Hardware Variants

Built-in brake chopper. 24V external supply of control card

### Technical Specification

Line voltage 200-240V or 380-500V  $\pm 10\%$

Supply frequency 48-62 Hz  $\pm 1\%$

Overload torque 150-160%

True power factor/displacement power factor, Cos  $\emptyset$  0.90/1.0 at rated load

Switching on supply input approx. 1 time/minute

### Control characteristics

Frequency range 0-1000 Hz

Speed accuracy (open loop)  
< 1500 rpm: max error  $\pm 7.5$  rpm  
> 1500 rpm: max. error 0.5% of actual speed

Speed accuracy (closed loop)  
< 1500 rpm: max error  $\pm 1.5$  rpm  
> 1500 rpm: max. error 0.1% of actual speed

### Inputs and outputs

8 digital inputs (0-24V)

2 analog outputs (2 x 0/4-20 mA)

2 digital outputs (0-24V)

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

2 relay outputs

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