



VLT[®] 2800 Series

The VLT[®] 2800 series has been developed for the low power market. Available in the power range 0,5-25 HP. The frequency converter is extremely compact and prepared for side-by-side mounting. The concept is modular with a power module and a control module.

Benefits

Flexible thanks to Automatic Motor Tuning that measures the motor parameters to ensure optimal match between drive and motor thus increasing performance of your drive. A PID-controller for optimum process control is included. Interrupt start/stop ensures high repeatability of positional accuracy every time.

Robust

The VLT[®] 2800 series is designed for stable operation in industrial environments. A built-in RFI filter 1A ensures compliance with the EMC standard EN 55011 1A. 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 VLT[®] 2800 complies with the EMC norm EN 55011-1B. The integrated harmonic suppression ensures compliance with IEC 61000-3-2.

User-friendly

All drives in the VLT[®] 2800 series are easy to use thanks to features like Quick Menu that includes the parameters needed to get up and running. The drive can also be controlled from a separate full text control panel. Fieldbus communication allows for control and surveillance of the drives from a PC or a PLC. Both Profibus and DeviceNet are available.

Applications

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

Input/output

- 5 digital inputs for start/stop, reset, thermistor etc.
- 2 analog inputs for either reference or feedback.
- 1 digital output and 1 analog output
- 1 relay output for status or control (alarms, frequency, power, temperature, etc.).
- RS485 communication port for total control and surveillance

No.	Function
01-03	Relay outputs 01-03 can be used for indicating status and alarms/warnings.
12	24 V DC voltage supply
18-33	Digital inputs
20,55	Common ground for input and output terminals
42	Analog output for displaying frequency, reference, current or torque.
46	Digital output for displaying status, warnings or alarms, as well as frequency output.
50	+10 V DC supply voltage for potentiometer or thermistor
53	Analog voltage input 0 - 10 V DC.
60	Analog current input 0/4 - 20 mA
67	+ 5 V DC supply voltage to Profibus.
68,69	RS 485, Serial communication.
70	Ground for terminals 67, 68 and 69. Normally this terminal is not to be used.

Technical data, mains supply 1 x 220-240V / 3 x 200-240V

	Type	2803	2805	2807	2811	2815	2822	2840
Output current (3 x 200-240 V)	I_{INV} [A]	2.2	3.2	4.2	6.0	6.8	9.6	16
	$I_{L,MAX}$ [A]	3.5	5.1	6.7	9.6	10.8	15.3	25.6
Typical shaft output	$P_{M,N}$ [HP]	0.5	0.75	1.0	1.5	2.0	3.0	5.0
Typical shaft output	$P_{M,N}$ [PS]	0.5	0.75	1.0	1.5	2.0	3.0	5.0
Input current (1 x 220-240 V)	$I_{L,N}$ [A]	5.9	8.3	10.6	14.5	15.2	-	-
	$I_{L,MAX}$ (60s) [A]	9.4	13.3	16.7	23.2	24.3	-	-
Input current (3 x 200-240 V)	$I_{L,N}$ [A]	2.9	4.0	5.1	7.0	7.6	8.8	14.7
	$I_{L,MAX}$ (60s) [A]	4.6	6.4	8.2	11.2	12.2	14.1	23.5
Enclosure	Type	IP20	IP20	IP20	IP20	IP20	IP20	IP20

Technical data, mains supply 3 x 380-480V

	Type	2805	2807	2811	2815	2822	2830	2840	2855	2875	2880	2881	2882
Output current (3 x 380-480 V)	I_{INV} [A]	1.7	2.1	3.0	3.7	5.2	7.0	9.1	12	16	24	32	37.5
	$I_{L,MAX}$ (60s) [A]	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	$P_{M,N}$ [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
Typical shaft output	$P_{M,N}$ [PS]	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 (3 x 200-240 V)	$I_{L,N}$ [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
	$I_{L,MAX}$ (60s) [A]	2.6	3.0	4.2	5.1	7.5	9.8	13.0	17.0	23.8	38.4	51.2	60
Enclosure* (std.)	Type	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	NEMA1	NEMA1	NEMA1

* NEMA1 options available for VLT 2803-2875

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Danfoss Drives

Division of Danfoss, Inc.
4401 N. Bell School Road
Loves Park
Illinois 61111
Telephone: +1 (815) 639 8600
Fax: +1 (815) 639 8000