The inverter with servo qualities.

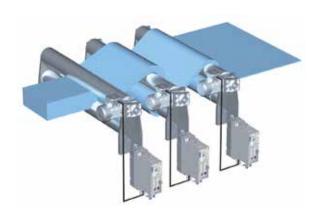


The 8400 TopLine offers the maximum level of functionality and optimum drive behaviour within the 8400 series, providing precisely tailored solutions. Furthermore, TopLine represents a costeffective solution for speed-controlled and position-controlled applications, as well as synchronised and positioning applications.

Highlights

- Servo control of synchronous and asynchronous servo motors
- ntegrated resolver input supports the standard feedback of Lenze servo motors
- Multiple encoder input extends the range of potential applications – including absolute position measurement systems
- Electrical shafts and electronic gearboxes can be implemented using the integrated axis bus

Typical applications include handling and positioning systems, as well as travelling drives and hoist drives in the most diverse of application areas. The integrated axis bus is also designed for synchronising drive axes, e.g. when processing material webs.





8400 TopLine Technology – At a glance

Performance data	
Mains: 1 AC 230/240 V	0.25 to 2.2 kW
Mains: 3 AC 400/500 V	0.37 to 45.0 kW
Overload current	
	150 % (60 s)
	200 % (3 s)
Operating conditions	
	Operating temperature -10 °C to +55 °C (derating above 45 °C: 2.5 %/K)
	IP20 enclosure
Functions	
	DC brake function
	Flying restart circuit, PID controller
	Sensorless vector control
	"VFC eco" energy saving function
	Sensorless control of synchronous motors (SLPSM)
	Brake management for brake control with low rate of wear
	Logic functions, comparator, counter, arithmetic function
	Freely interconnectable function blocks
	Point-to-point positioning (with and without feedback)
	S-ramps for smooth acceleration and deceleration
	Servo control for synchronous and asynchronous motors
	Electrical shaft with adjustable ratio (electronic gearbox)
	Positioning sequence control
	KTY temperature sensor evaluation
Interfaces	
	Memory modules, L-force diagnostics interface
	DIP switch for CANopen (on board)
	Integrated brake chopper
	External 24 V supply
	Digital inputs / outputs (8/4), analog inputs / outputs (2/2), relay
	Slot for EtherCAT, EtherNET/IP, PROFIBUS or PROFINET communication module
	PTC/thermal contact input
	Resolver input and multiple encoder input
	Axis bus (for cross communication, synchronisation)
Feedback systems	
	HTL incremental encoder (200 kHz), TTL incremental encoder
	Resolver
	SinCos encoder (1Vss), SinCos Hiperface absolute value encoder, SSI encoder
	Digital frequency input / output
Safety engineering	
	Safe torque off (STO), certified to EN 13849-1 (Cat. 4, PL e), IEC 61508/EN 62061 (SIL 3)
Approvals	ICC 01300/EM 02001 (3IT 3)
Applovais	CE, cUL, EAC, RoHS
	CE, COE, EAC, NOTIS



