

The inverter for positioning tasks.



The 8400 HighLine stands out from the 8400 range with its integrated point-to-point positioning. This allows up to 15 selectable target positions, including their travel profiles, to be saved in the inverter. Depending on accuracy and dynamic requirements, you can choose to position with or without feedback.

Each of the positioning axes is set up for its individual application using the graphic and application-specific entry masks of the Engineer software tool. This makes setting parameters, commissioning and diagnostics child's play.

Highlights

- Integrated point-to-point positioning reduces the load on the higher-level PLC
- Precise servo control of asynchronous motors
- Integrated safety (STO) in line with EN 13849-1 reduces the need for external controls

The 8400 Highline is recommended for applications without feedback, such as dosing drives, palletizers or feed units, etc. Typical applications with feedback include: cross-cutters, rotary tables, lifts and hoists.



8400 HighLine Technology – At a glance

Performance data	
Mains: 1 AC 230/240 V	0.33 to 3 Hp (0.25 to 2.2 kW)
Mains: 3 AC 400/480 V	0.5 to 60 Hp (0.37 to 45.0 kW)
Overload current	
	150 % (60 s) 200 % (3 s)
Operating conditions	
	Operating temperature 14° F to 131° F [-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 asynchronous motors
Interfaces	
	Memory modules, L-force diagnostics interface DIP switch for CANopen (on board) Integrated brake chopper External 24 V supply Digital inputs / outputs (7/4), analog inputs / outputs (2/2), relay Slot for EtherCAT, EtherNET/IP, PROFIBUS or PROFINET communication module PTC/thermal contact input
Feedback systems	
	HTL incremental encoder (200 kHz)
Safety engineering	
	Safe torque off (STO), certified to EN 13849-1 (Cat. 4, PL e), IEC 61508/EN 62061 (SIL 3)
Approvals	
	CE, cUL, EAC, RoHS

