L-force *Inverter Drives 8400 protec EMS*

Decentralised for monorail overhead conveyors and automated guided vehicle systems

Highlights

- Integrated PLC
- EMS-specific communication
- Connects to route measurement systems
- Creates multi-axis systems
- High quality build and short delivery times as the drive is a standard product

Monorail overhead conveyors with their high level of automation are not conceivable without innovative control systems. In overhead rail transportation systems, they are responsible for speed control and contactless activation of asynchronous motors.

Automated guided vehicle systems transport goods efficiently and safely to their destination in several industry sectors. Energy and control signals are inductively (without contact) transferred to the inverter.

The system

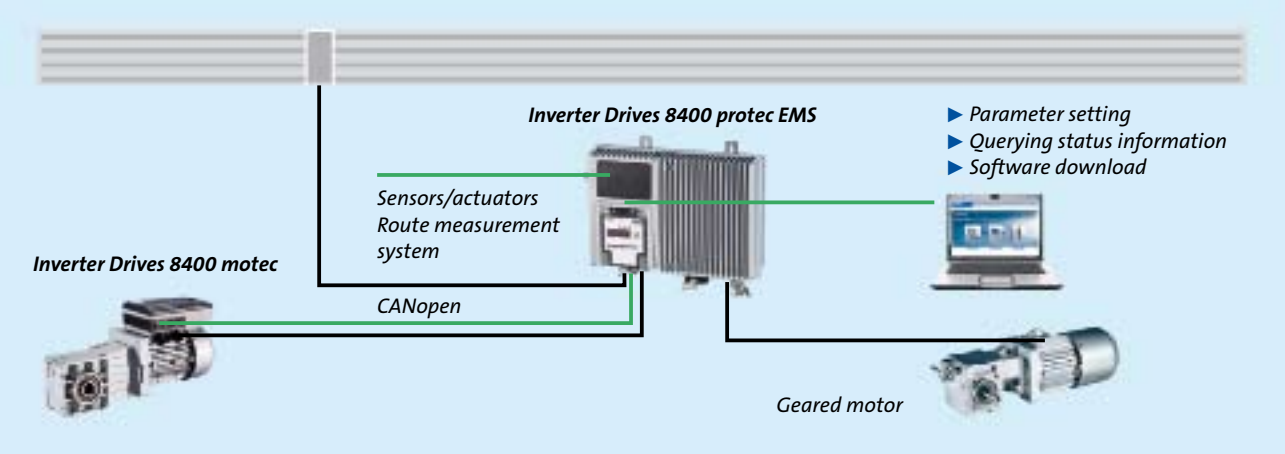
Synergies for your benefit
The 8400 protec EMS (Electrified Monorail System) combines the tried-and-tested technology of a standard drive with the features of a project-specific solution.

For example the system integrates a PLC, which is programmed according to the IEC 61131-3 standard according to the specific project. Additional digital inputs and outputs and the option of connecting a route measurement system allows the product to be flexibly connected to the application.

Energy is supplied inductively or via sliding contacts. Other highlights include specific communication, such as half wave, half wave coded, Powerwave and DECA rail bus. Drive functions can also be performed using infrared remote control.

An energy bus and fieldbus allow multi-axis applications to be performed with ease. Digital inputs and outputs and route measurement systems can be processed directly from the integrated PLC and commands forwarded to lower-level inverters via CAN bus.

Multi-axis application – solved with 8400 protec EMS and 8400 motec



Technical data

Typical motor power (ASM, 4-pole)	**P_{rated} [kW]**	**0.75**	**1.5**	**3.0**	**4.0**
Rated output current	**I_{rated} [A]**	2.4	3.9	7.3	9.5
Overload		150 % (60 sec); 200 % (3 sec)			
Dimensions Height x width x depth	**[mm]**	260 x 353 x 110		260 x 434 x 148	
Climatic condition Operation (EN 60721-3-3)		3K3 (temperature: -25 °C ... +55 °C) Derating above 45 °C (2.5 % /K)			
Degree of protection		IP65			

The data applies to operation at AC 400 V

Lenze Drives GmbH · Postfach 10 13 52 · 31763 Hamelin, Germany · Subject to technical alterations · Printed in Germany 2.2011 en · 5 4 3 2 1