

Monorail overhead conveyors and automated guided vehicle systems.



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.

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



The system

Synergies for your benefit

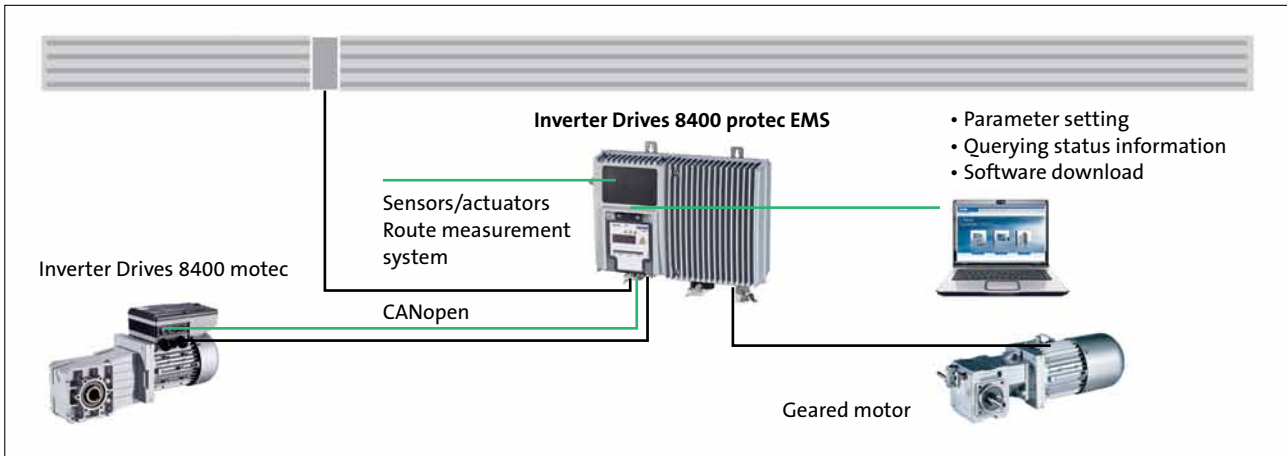
The 8400 protec EMS (Electrified Monorail System) combines the tried-and-tested technology of a standard drive with the features of a project-specific solution.

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 | | 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) | | | |
| Enclosure | | IP65 | | | |

The data applies to operation at AC 400 V