SIMATIC ET 200pro in the automotive industry

The modular SIMATIC ET 200pro with a high degree of protection represents the optimum choice for spatially distributed drive tasks – e.g. for logistic systems in the automotive industry.

Modular and flexible

Featuring a rugged design with a degree of protection IP65/67 for assembly without a control cabinet, SIMATIC ET 200pro is perfectly suited for application under harsh ambient conditions. The system consists of an interface module as well as expansion modules for sensors and motor starters. Depending on the application, multiple motor starters can be flexibly combined into a single station. ET 200pro motor starters start and protect motors and loads up to 5.5 kW. Direct-on-line and reversing starters with mechanical or electronic switching are available – optionally with brake control. All solid-state switching versions are available with integrated soft starter function. The compact motor starters can be easily installed in the ET 200pro station – up to eight starters can be mounted on a station width of one meter. The motor connection lines are directly connected to the motor starter module – with reduced wiring expenditures thanks to plug-in connection system. A repair switch disconnects all downstream starters from the line voltage in case of fault.

Safety

Safety-related applications up to SIL 3/PLe can be easily realized with PROFIsafe and a disconnection module.

SIMATIC ET 200pro: Highlights at a glance

- Modular design: Realization of various drive tasks with a single system
- Flexible integration of numerous sensor modules
- Easy and flexible subsequent expandability as required
- Control of multiple drives via a single IP address
- Cost-efficient and rapid device replacement in service cases
- Fast and fault-free mounting and commissioning thanks to plug-in connection system and prefabricated cables
- Communication via PROFIBUS and PROFINET with PROFIenergy
- Realization of safety concepts (local and system-spanning) with Safety Integrated
**SIMATIC ET 200pro – the first choice for automotive applications**

The distributed operation of powerful roller conveyor systems, e.g. in small parts warehouses in the automotive industry, represents a typical application of SIMATIC ET 200pro. Roller conveyor systems operated at constant speed are switched via motor starters. Thanks to the application of PROFIsafe in combination with SIMATIC F-CPU and a disconnection module, safety-related system configurations up to SIL 3 in accordance with EN 62061 and PLe in accordance with EN ISO 13849-1 can be realized extremely easily.

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**Requirements:**

Modern automatic small parts warehouses represent the core of demand-oriented material supply systems employed in automotive production. Vehicle parts delivered by sub-suppliers are automatically stored in high-bay warehouses, prepared for production in the picking warehouse and then transported to the production line just in time. The required supply chain is ensured by a large number of spatially distributed drives which have to be controlled individually. Furthermore, a high availability of the overall system, energy-efficient and economical operation as well as safety of persons and machines have to be guaranteed at all times.

**Solution:**

Powerful conveyor technology (e.g. roller conveyor systems) ensures the materials’ optimum transport flow throughout the entire warehouse. On the basis of this concept, modern warehouse systems can attain a throughput rate of up to 3,000 material containers per hour. In this context, SIMATIC ET 200pro offers the ideal drive solution:

- Support of comprehensive preventive maintenance thanks to manifold diagnostics functions
- Faster and easier device replacement thanks to modular design with integrated plug-in connection system
- Realization of customized drive solutions thanks to the optional flexible combination of various modules in a single system; also subsequent adjustments are supported as required
- Connection to the superior control system via PROFIBUS or PROFINET; the integrated PROFIenergy functionality provides measuring data for the energy management system while also ensuring optimized energy consumption – by means of drive disconnection during break periods

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