

Machine Builders, It Is Time To Cut Engineering Time And Costs — DIGITIZE Load Management

TeSys island for pumping

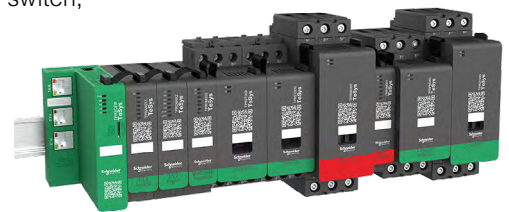
Unique features

TeSys island is a smart, digital multifunctional load management system; it can switch, protect, manage motors and other electrical loads up to 80 Amps in an electrical control panel. TeSys island helps prevent unplanned stoppage or damage, without the need for traditional sensors in some cases.

Benefits

Why should you choose TeSys island?

- Enhanced efficiency through quicker engineering, removal of auxiliary wiring and efficient commissioning can be done remotely.
- Embedded algorithms detect abnormal load behaviors and generate alarms before machine stoppage.
- Pre-trip warnings can also be set on the system for scheduled maintenance.
- With Predictive Alarms, users are now more equipped with application status and can take appropriate actions to avoid machine outage.
- The Autonomous mode enables TeSys island to control loads independently from the PLC.
- TeSys island provides energy monitoring at the load level.
- TeSys island can be easily integrated into Schneider Electric™ EcoStruxure™ Machine architecture and 3rd party automation solutions with open communications via fieldbuses like: EtherNet/IP, Modbus TCP, PROFINET, and PROFIBUS.



We have a solution for your pumping applications

Efficient

Make your pump machine intelligent with TeSys island, save time and costs thanks to intuitive programming and commissioning. Simplify software integration within all major automation environments. One-click mounting on DIN rail and no need for control wiring within the panel.

Maintain uptime

Secure your system with TeSys island to get early indications of potential dry running or cavitation in the pump. Speed up your troubleshooting process with timely customizable warning levels.

Enhanced capabilities and performance

With Predictive Alarms, be more equipped with pump status and take appropriate actions to avoid machine outage. Detect pump issues without the need of traditional sensors.

Enable new business models

Propose tailored predictive maintenance actions thanks to the visibility that TeSys island brings on the use of the machine, time, number of operations, number of alarms and trips, etc. Access your pumping machine remotely during commissioning, operation and maintenance for health and device data.

Enhanced performance

Thanks to its Pumping avatar, TeSys island detects pump issues to protect your machine and optimize its performance and lifetime:

- Low or no flow
- Debris on impeller
- Debris preventing rotation
- Deadline detection
- Reverse flow
- Leakage

Technical specifications

- System consists of DOL Starters & Input / Output modules.
- The system manages motors and other electrical loads up to 80A (AC1) or 37kW/40hp at 66A (AC3).
- Up to 20 modules / 1 meter at one bus coupler.
- No mechanical adjustments/settings required.
- International standards-compliant.
- Only 20 commercial references for the complete system, including 5 standard starters and 5 SIL starters for functional safety systems.
- Energy monitoring at the load level.
- Cybersecurity embedded into the system (Achilles Level 2 & Safety up to Cat 4).
- Safe Stop TUV certified (Stop 0 and 1 with wiring categories 1 to 4, suitable for PL c, d, e (Performance Level) and SIL 1, 2, 3 (Safety Integrity Level).
- Open connectivity thanks to EtherNet/IP, Modbus TCP, PROFINET, and PROFIBUS fieldbuses with smooth integration into Rockwell's Studio 5000™ and Siemens™ TIA portal.

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Life Is On

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