

TeSys™ island	
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Control and
monitoring
island

Digital multifunctional load management solution

TeSys™ island is designed to switch, protect, and manage motors and other electrical loads up to 80 Amps (AC3) in an electrical control panel.



Dedicated to Control and Monitor Machine and Processes

TeSys™ island is a digital load management solution that makes machines and processes smarter and more reliable.

TeSys™ island is a fully digitized and object-oriented load management system and an Industry 4.0 compliant data provider.

It is reducing time to market and is enabling OEMs to move forward in their Industry 4.0 journey.

Benefits of the object-oriented functional approach

The TeSys avatar approach simplifies application and system configuration and reduces engineering tasks. Thus TeSys™ island makes the machine engineering and installation phase much faster.

In addition, TeSys™ island can be easily integrated into 3rd party automation systems and supports several fieldbuses like EtherNet/IP, Modbus TCP, PROFINET and PROFIBUS.

TeSys™ island gives users access to all relevant load data for advanced system diagnostics.



More information

- Watch videos, read documents and use the product selector online on Schneider Electric website.

TeSys™ island

Introduction

TeSys™ island catalog:



> Ref. Document: LVCATISL_EN

TeSys™ island design guides:

- > 8536IB1901: TeSys™ island System Guide
- > 8536IB1902: TeSys™ island Installation Guide
- > 8536IB1903: TeSys™ island Operating Guide
- > 8536IB1904: TeSys™ island Functional Safety (Safe Stop according to EN 61800-5-2) Guide
- > 8536IB1905: Third Party Function Block Guide and more.

Main characteristics

- TeSys™ island manages motors and other electrical loads up to 80 A (AC-3) / 37 kW/40 hp
- Fieldbus connectivity via bus coupler for EtherNet/IP, Modbus TCP, PROFINET or PROFIBUS
- Availability of all relevant load data like current, power, energy and advanced diagnostic data
- Simplified engineering and commissioning due to TeSys avatar objects and dedicated configuration and maintenance tools
- Up to 20 modules on 1 island mounted on DIN rail (up to 112 cm length)
- No control or auxiliary wiring required, thanks to full connectivity over fieldbus
- All adjustments and setting are digitized, no mechanical dials or dip switches
- Limited number of references including 5 starter sizes, digital & analog I/Os and voltage measurement modules
- SIL starter available for integration into functional safety systems according to IEC 61508, IEC 62061 and ISO 13849-1, including TUV certification (Stop 0 and 1 with wiring categories 1 to 2, suitable for PL c, d and SIL level 2)
- Fully compliant to international standards (IEC / UL / CSA 61010, IEC / UL / CSA 60947, GB/T14018)
- Embedded Cybersecurity (Achilles Level 2).

Control and monitoring island

Modular architecture, thanks to TeSys™ island internal bus

