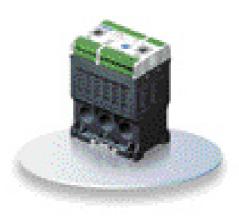
The efficiency of Telemecanique branded *solutions*

Used in combination, Telemecanique products provide quality solutions, meeting all your Automation & Control applications requirements.





A worldwide presence

Constantly available

- More than 5 000 points of sale in 130 countries.
- You can be sure to find the range of products that are right for you and which complies fully with the standards in the country where they are used.

Technical assistance wherever you are

- Our technicians are at your disposal to assist you in finding the optimum solution for your particular needs.
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Simply Smart!

Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us. Design: Link To Business Photos: Schneider Electric Print: Imprimerie Fuchey - 21 Arnay - 135656





TeSys T

DIA1ED1

Motor management system Give your motor starters a sixth sense!



Simply Smart!

Leveraging

ingenuity and intelligence for ease of use

TeSys**T**, The sense of protection

TeSys T is an advanced motor management and protection system. It is able to guard against all motor malfunctions: overload, current peak, excessive consumption, etc.

Always attentive to the motor environment, TeSys T combines in harmony the primary protection requirements of a motor with additional protection functionality. With TeSys T, perfect adaptation to all your motor installed base management needs is guaranteed.

Untimely stopping of a process or manufacturing relating to a motor is anticipated.

Open to all communication protocols, TeSys T is an efficient replacement of all existing relays.

> With TeSvs T, Schneider Electric, the world leader in motor starters, passes on to you its MCC* manufacturing know-how. Just as for the entire Tesys range, incorporation of TeSys T in a Low Voltage switchboard is optimised. With TeSys T, you have a system that is extremely easy to implement.

> > At all times, you have a clear vision of your system's management. Supervision, monitoring, accurate diagnostic, everything is under control! With TeSys T, you are more efficient.

The sense of protection, the sense of openness, the sense of performance. With TeSys T, you equip your motor starters with a genuine 6th sense.

De protec



With its outstanding analysis accuracy, TeSys T anticipates failure situations, thus minimizing tripping actions. With TeSys T, you reduce maintenance costs and time.





Thanks to an open language, understandable by all industrial networks, TeSys T warns you only when necessary. Meeting your taste for communication, TeSys T feeds back quality information in real time.

With TeSys T, you enhance the operation and safety of your process.



Te*Sys***T**, The sense of openness

With TeSys T, you enhance the operation and safety of your process.

TeSys T covers all motor monitoring and protection needs in industrial installations in which a high degree of availability of production equipment is an essential requirement.

TeSys T is also the most efficient protection solution for sectors relating to our everyday life such as energy (oil, gas, etc.), chemistry, the pharmaceutical industry, treatment and distribution of water, etc.







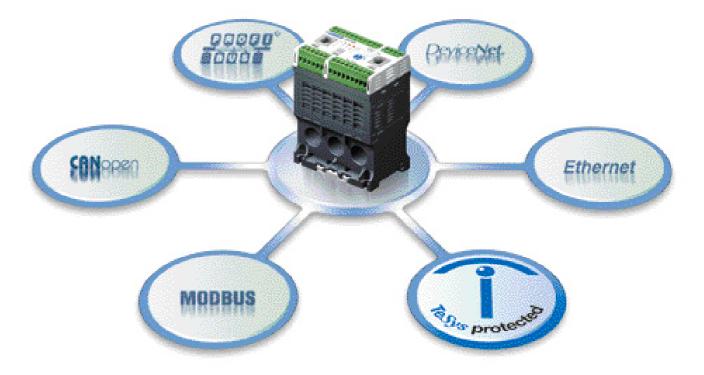
TeSys T is ideal for use in industrial installations such as iron and steel, cement works, paper mills and raw material extraction.

Incorporated in a MCC^{*}, TeSys T guarantees the highest possible level of reliability for your installations and equipments:

- pumping, ventilation, filtration, etc.
- compressors, mixers, crushers, conveyors, etc.



TeSys T consists of:



With TeSys T, you are more efficient!

The controller is equipped with a communication interface to remotely supervise and control the motor.

- Easily available both locally and remotely, the information required to optimise and monitor your process is now accessible at all times: parameter setting and activation of protection devices, configuration and management of motor controls, motor status monitoring (alarms, tripping),

- data exchange (diagnostic, histories, counters, etc.).



system TeSys T is manufactured in conformity with the requirements of the RoHS european directive (Restriction of hazardous Substances)

TeSys T, an advanced motor management and protection system.

- an efficient multi-function protection device, separate from the automation system;
- an operator control unit, for reading and modification of the parameters monitored;
- a configuration software, extremely simple and user-friendly intended for implementation of motor starters equipped with TeSys T.
- An expansion module completes the controller functions with voltage measurement and additional logic inputs.

Completely open, TeSys T can be incorporated in all communication buses available on the market: Ethernet, ModBus, CANopen, DeviceNet, Profibus.



Te*Sys***T**, The sense of performance

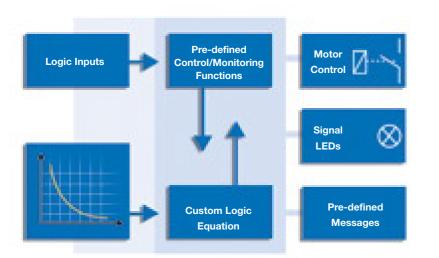
From pre-programmed motor control functions

Everything has been provided to simplify integration of TeSys T. 5 motor control functions are placed at your disposal to simplify configuration and implementation of the motor starter.

- overload mode independent mode
- changeover mode
- 2-step mode
- 2-speed mode

... to customisation of a control mode!

The interface and customisation mode allows you to customise motor control. You can utilise logic functions in two languages: function blocks and structured text. This customisation mode is incorporated in the PowerSuite software suite, also used to configure variable speed drives, TeSvs U motor starters, etc.



With TeSys T, you reduce maintenance costs and time

The combination of basic protection functions of the controller and of advanced protection functions with addition of the expansion module guarantees maximum analysis accuracy. Your process is now transparent and tripping minimised.

Basic protection and monitoring functions

- Thermal overload protection
- Motor temperature protection by probes
- Earth fault protection
- Phase imbalance and loss protection
- Long start protection (stall)
- Jam protection (locked rotor)
- Load variation monitoring
- Phase sequence monitoring, etc.

Advanced protection and monitoring functions (with Expansion module)

- Voltage measurement
- Power measurement
- CosPhi measurement
- Load shedding, etc.

Histories

- Operating time
- Motor starts per hour
- Last start time
- Last start max current
- History of the last 5 faults per type

Statistics

- Faults counter
- Warning counter
- Auto reset counter
- Protection counter
- Diagnostic counter
- Load shedding, lock, fault counters, etc.

Fault management

- Diagnostic (Motor control)
- Wiring and configuration errors
- Internal (Watchdog, EEPROM, CPU, etc.)
- Communication loss





Fauipment with TeSys T motor starter

With TeSys T, you benefit from the Schneider Electric system offer.

On technical premises and in LV switchboards TeSys T is extremely easy to integrate. Its shape and compact design ensure that TeSys T is naturally used for fixed, disconnectable and draw-out assemblies as per IEC or NEMA standards for international and local applications.

To ensure that you benefit from all the know-how of Schneider Electric, installation systems and complete implementation and cabling files will guide you through perfect integration of TeSys T in the MCCs*: Okken, Blockset and Model 6.









Equipment with TeSys T and TeSys U motor starters



Motor management system Controllers







Type of fieldbus			Modbus		Profibus DP		
Supply voltage			24 VDC	100240 VAC	24 VDC	100240 VAC	
References	Current range	0.48 A	LTMR08MBD	LTMR08MFM	LTMR08PBD	LTMR08PFM	
		1.3527 A	LTMR27MBD	LTMR27MFM	LTMR27PBD	LTMR27PFM	
		5100 A	LTMR100MBD	LTMR100MFM	LTMR100PBD	LTMR100PFM	





Type of fieldbus			CANopen		DeviceNet	
Supply voltage			24 VDC	100240 VAC	24 VDC	100240 VAC
References	Current range	0.48 A	LTMR08CBD	LTMR08CFM	LTMR08DBD	LTMR08DFM
		1.3527 A	LTMR27CBD	LTMR27CFM	LTMR27DBD	LTMR27DFM
		5100 A	LTMR100CBD	LTMR100CFM	LTMR100DBD	LTMR100DFM

Extension module



Type of module	4 additional inputs + voltage measuring			
Inputs voltage	24 VDC	100240 VAC		
References	LTMEV40BD	LTMEV40FM		

Operator dialogue terminal and software

		E C
Type of terminal	Compact display	Configuration software
Description	4 lines of 20 characters	For Windows 98, 2000, XP
Supply voltage	24 VDC	-
References	XBTN410	XBTL1000

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Other versions: please consult your Schneider Electric agency.

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Te*Sys* T _____

Motor management system Current transformers



Type of transformer		External					
Operational current	primary	100 A	200 A	400 A	800 A		
	secondary	1 A	·	·	·		
References		LT6CT1001	LT6CT2001	LT6CT4001	LT6CT8001		

Earth fault toroids

Type of toroid	Closed					Split		
Maximum current	65 A	85 A	160 A	250 A	400 A	630 A	85 A	250 A
Internal diameter	Ø 30	Ø 50	Ø 80	Ø 120	Ø 200	Ø 300	Ø 46	Ø 110
References	TA30	PA50	IA80	MA120	SA200	GA300	POA	GOA

PTC thermistor probe

Type of probe	Triple							
Operating temperature	90°C	110°C	120°C	130°C	140°C	150°C	160°C	170°C
References	DA1TT090	DA1TT110	DA1TT120	DA1TT130	DA1TT140	DA1TT150	DA1TT160	DA1TT170

Accessories (1)





Type of accessory	Connecting cable					
	Controller / Extension module					
Length of cable	0.04 m	0.3 m	1 m			
References	LTMCC004	LU9R03	LU9R10			



Type of accessory	Connecting cable	Connection kit
	Controller / Display	PC serial port
Length of cable	2.5 m	-
References	XBTZ938	VW3A8106

(1) For other connection accessories, see www.telemecanique.com

