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■ The ultimate starter-controller ■ The ultimate starter-controller ■ The ultimate starter-controller

Telemecanique



The ultimate starter-controller for the End User

Future proof

Simple upgrading using plug-and-play function modules

Flexible

- Easy to programme multi-function protection module
- Wide band electronic overload modules

Easily integrated into automation systems

- On Parallel bus using LUFC00 plug-in module
- On Serial bus, with:
- AS Interface plug-in module ASILUFC5
- MODBUS plug-in module LUFCO32
- CANOPEN plug-in module available Autumn 2004
- Other protocols can be addressed through a gateway

Reduces downtime

Total co-ordination enables fast return to service after short circuit fault

Facilitates preventive maintenance with on-board diagnostics

Multifunction protection module logs last 5 faults, hours run, number of starts etc.

Nationwide support on one number call the Customer Information Centre on 0870 608 8 608

Fax 0870 608 8 606

Schneider Electric's local support

excellent meeting facilities.

Merlin Gerin is a world leader in the manufacture and supply of high, medium and low voltage products for the distribution, protection, control and management of electrical systems and is focused on the needs of both the commercial and industrial sectors. The newly launched VDI Network Solutions offer provides flexible, configurable Ethernet systems for all communication needs.

Square D is a total quality organisation and its business is to put electricity to work productively and effectively, protecting people, buildings and equipment. Its low voltage electrical distribution equipment, systems and services are used extensively in residential and commercial applications

Merlín Gerín

Square D

Telemecanique is a UK market leader and world expert in automation and control. It provides complete solutions, with its range of components, Modicon range of high technology programmable controllers (PLCs), multiple fieldbus and Ethernet communication networks, HMI, motion control systems, variable speed drives and communications software. In addition, it offers power distribution through prefabricated busbar trunking.

Local customer support centres

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Building systems and solutions showroom Schneider Electric Ltd, Stafford Park 5, Telford, Shropshire TF3 3BL

Energy and Infrastructure systems and solutions showroom Schneider Electric Ltd. 123 Jack Lane, Hunslet, Leeds LS10 1BS



Schneider Electric is committed to supporting its customers at every stage of a project. Our 180 sales engineers, the largest dedicated sales force in the UK electrical industry, operate from 4 customer support centres.

Our sales engineers are skilled at assessing individual requirements and combined with the expert support of our product specialists, will develop the most effective and economical answer taking relevant regulations and standards fully into account. To access the expertise of the Schneider Electric group, please call 0870 608 8 608. Each customer support centre includes facilities for demonstrations and training, and presentation rooms fully equipped with audio visual and video, providing

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Telemecanique

TeSys[®] Model U – the ultimate starter-controller





APR 2004

■ The ultimate starter-controller ■ The ultimate starter-controller ■ The ultimate starter-controller

The ultimate starter-controller TeSys[®] Model U

The ultimate starter-controller for the Panel/MCC builder and OEM

Cost saving right from the design stage

- Simplified component selection
- Fewer components providing more solutions
- Quicker panel layout and circuit design

Cost saving during panel production

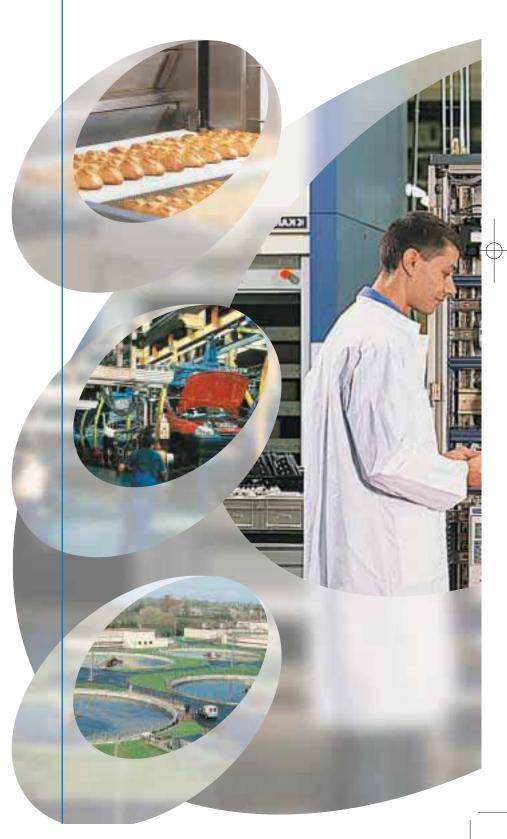
- Assembly time slashed with plug-in components
- Far fewer wires per starter reduces wiring time

Space saving design allows smaller enclosures

- Starter footprint reduced by up to 60%
- 45mm wide DOL and reverser up to 32A
- Lower heat rise compared to conventional solution

Customisation at final build stage

 Selection of motor protection parameters and control voltage after completing panel assembly and wiring



IN REAL PROPERTY.

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Reduced lifetime costs, with the flexibility of plug-and-play technology

Representing a massive leap forward in motor control capability, TeSys[®] Model U is a 'mechatronic' product, combining the proven benefits of a robust electromechanical device with the flexibility and sophistication of electronic technology.

TeSys® Model U is a motor starter-controller complying with BSEN 60947-6-2. It combines the functionality of disconnection/isolation, short circuit protection, power switching (contactor) and electronic motor protection, in a compact 45mm wide device right up to 32A. Even a reversing starter is only 45mm wide with TeSys[®] Model U!

TeSys[®] Model U's plug-and-play technology allows assembly and wiring of the panel before selection of motor protection parameters and control voltage. Changing the starter's capability can be achieved in seconds, thanks to plug-in function modules.

From faster panel design and reduced build and wiring time, right through to system fault diagnostics and easy upgrading as the application evolves, TeSys® Model U's emphasis is on reduced cost of ownership throughout the product life cycle.

For simple product selection follow the chart to the right.

select...

select...

Control Unit







12A ≤ 440V - *LUB120* 32A ≤ 440V - *LUB320* Base without terminal block

Selection paramet		
Motor rating kW 400/415V	Setting range A	
0.09	0.15-0.6	
0.25	0.35-1.4	
1.5	1.25-5	
5.5	3-12	
7.5	4.5-18	
15	8-32	

* Available later

** Add voltage suffix for advanced control unit: BL 24VDC, B 24VAC, FU 110-240VAC/DC

Multifunction control unit 24V DC only

Selection guide TeSys® Model U select options.. Direct mount reversing block 12 Reversing block LU2MB0** Reversing 12A ≤ 440V - *LUB12* Block 32A ≤ 440V - *LUB32* Base with control terminal block

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+	Terminal Block LU9BN11 Not required for reversing motor starter-controller or when using a communication or parallel wiring module	
	wiring module	
	+	+ Not required for reversing motor starter-controller or when using a

OR





Separate mounted reversing block

+

Separate mounted reversing block LU6MB0**







......

Reverser

control block

Reverser

LU9M1

control block







Reverser

LU9MR1

block

Pre-wired

connector

LU9MR1C





select options..

Function

Module

One function module per

starter may be fitted

select options..

Add-on

Contact Block

Cabling and Communication Components

ters		Advanced Control Units			Multifunction Control Units [#]
	Power base rating	3 phase Class 10	1 phase Class 10	3 phase Class 20	1 or 3 phase class 5-30
	12 & 32A 12 & 32A 12 & 32A 12 & 32A 32 32	LUCBX6** LUCB1X** LUCB05** LUCB12** LUCB18** LUCB32**	LUCCX6** LUCC1X** LUCC05** LUCC12** LUCC18** LUCC32**	LUCDX6** LUCD1X** LUCD05** LUCD12** LUCD18** LUCD32**	LUCMX6BL LUCM1XBL LUCM05BL LUCM12BL LUCM18BL LUCM32BL

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Note: depending on configuration, other components may be needed to complete assemblies. Consult the TeSvs® Model U technical catalogue for further information. Images are for illustration purposes only. Refer to technical catalogue for dimensions.

Function modules for use with advanced control units only

Fault differentiation and manual reset* LUFDH20

Fault differentiation and auto reset* LUFDA10

Thermal o/load alarm LUFW10 Motor load 4-20mA LUFV2 module

the first

Function modules for use with any control units

Auxiliary contact module

2NO **LUFN20** 1NO+1NC **LUFN11** 2NC **LUFN02**



Fault signalling contact block

Contact arrangement

1NC fault contact + 1 NO pole status contact 1NC fault contact + 1 NO 'ready' contact 1NO fault contact + 1 NO 'ready' contact Cannot be used with Modbus Module



LUA1D11* OR LUA1C11* LUA1C20



LUA1C110* LUA1C200

Contact

block – no

LUA1D110*

connections



LU9BD11*

Terminal

block

For parallel wiring

Parallel wiring module LUFC00



Splitter box (connects up to 8 LUFC00) LU9G02



For cable assemblies see technical catalogue

For MODBUS communications (use with 24V DC control unit)





MODBUS hub LU9GC3 for connecting up to 8 slaves

For cable assemblies see technical catalogue

For AS Interface communications

AS Interface module ASILUF5C



For As Interface connection components see technical catalogue

Pre-wired coil connection LU9BN11C use with LUB base (non-reversing assembly)



Pre-wired coil connection LU9MRC use with direct mounted reversing assembly



OR