

TeSys U-Line Motor Starters

The Ultimate in Power, Protection and Control



TeSys U-Line Reinventing flexibility



The **TELEMECANIQUE TeSys U-Line** motor starter brings power, protection and control all together in one compact, modular device, providing motor short-circuit protection, manual disconnect, remote switching of the power circuit and thermal overload protection. A full range of protection, communication and application modules literally plug into U-Line's power base unit, so you can easily customize or extend your system and upgrade functions at the last minute, even after installation.

U-Line consists of the **Power Base Unit**, the **Control Unit**, **Communication Modules**, **Function Modules** and a variety of additional add-on features. Choose each piece to build the motor starter that meets your specific application needs.

Power Base

Starter or self-protected starter in two current ranges: 0.15-12 A and 0.15-32 A.

Control Unit

Customizes thermal protection and communication functionality. There are three types and only 6 ratings up to 32 A, all snap-on and lockable, that provide a range of protection functions from simple to the most sophisticated without increasing U-line's size.

- *Standard*
Protection with a class 10 overload.
- *Advanced*
Protection with a class 10 or class 20 overload. Manual or automatic reset, thermal pre-alarm, etc. by adding a function module.

- *Multifunction*
Programmable thermal protection from class 5 to class 30, multiple protection functions, real-time measurement and retrieval of currents, diagnostic and log functions, local or remote parameter setting. (PowerSuite, PC, bus).

Plug-in Modules

Integrate automation system and communication processing functionality:

- *Communication Modules*
 - Serial link:
Various protocols including As-i, Modbus, DeviceNet, Profibus, FIP I/O via gate-ways
 - Parallel link: pre fabricated with RJ 45 connector

• *Function Modules*

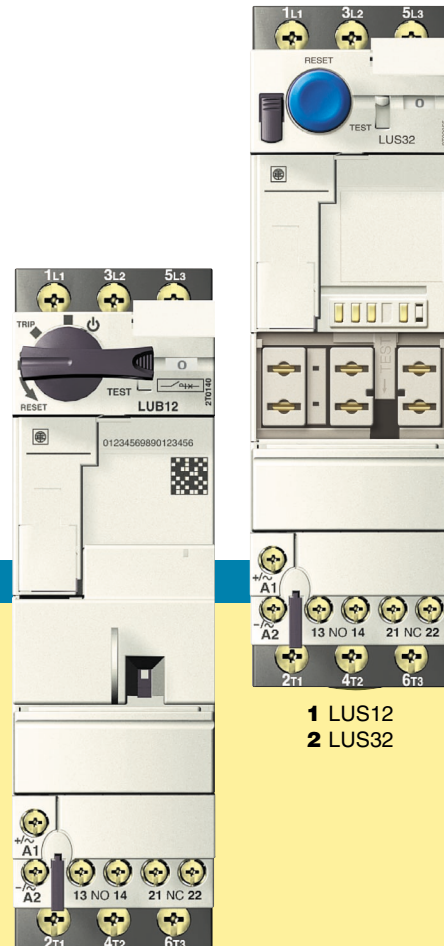
Incorporating elementary functions:
Alarm, Motor Load Indication Functions and Applications such as ventilation, pump control material, handling, etc.

Additional Features

- *Auxiliary Contacts*
Can be integrated without altering the overall dimensions.
- *Reversing Block*
The power path consists of a function unit mounted under the base or separate. Control wiring by plug-in connectors requiring no tools.

Control and Power Bases

With the plug and play modularity of the TeSys U-Line, you can customize and update the functionality of your system to meet your ever-changing application requirements.

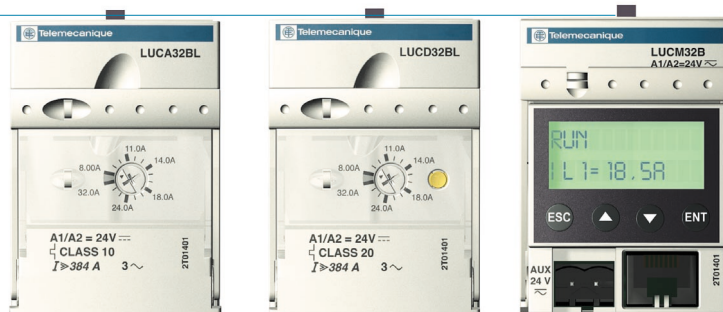


Power Bases	Self-Protected Starter	Motor Starter
Screw power and control		
1 ■ 12 A (without connections LUB120)	LUB12	LUS12
2 ■ 32 A (without connections LUB320)	LUB32	LUS32
<input checked="" type="checkbox"/> Reversing block for mounting <input type="checkbox"/> Directly beneath power base LU2MB0 + LU9MR1C + LU9M1 or LU9MRC <input type="checkbox"/> Separately LU6MB0 + LU9MR1 + LU9M1 or LU9MRC		
<input checked="" type="checkbox"/> Reversing power base pre-assembled Screw power and control		
<input type="checkbox"/> 12 A (without connections LU2BA0)	LU2B12●●	
<input type="checkbox"/> 32 A (without connections LU2BB0)	LU2B32●●	
	●●	
24 V DC	BL	
24 V AC	B	
48...72 V AC/DC	ES	
110...240 V AC/DC	FU	

1 LUB12
2 LUB32

1 LUS12
2 LUS32

Control Units



3 LUCA▲▲▲●●

4 LUCD▲▲▲●●

5 LUCM▲▲▲BL

Control Units

3 ■ standard

class 10 three-phase **LUCA▲▲▲●●**

0.15...0.6 A **X6** 24 V DC **BL**

4 ■ advanced

class 10 three-phase **LUCB▲▲▲●●**

0.35...1.4 A **1X** 24 V AC **B**

class 10 single-phase **LUCC▲▲▲●●**

1.25...5 A **05** 48...72 V AC/DC **ES**

class 20 three-phase **LUCD▲▲▲●●**

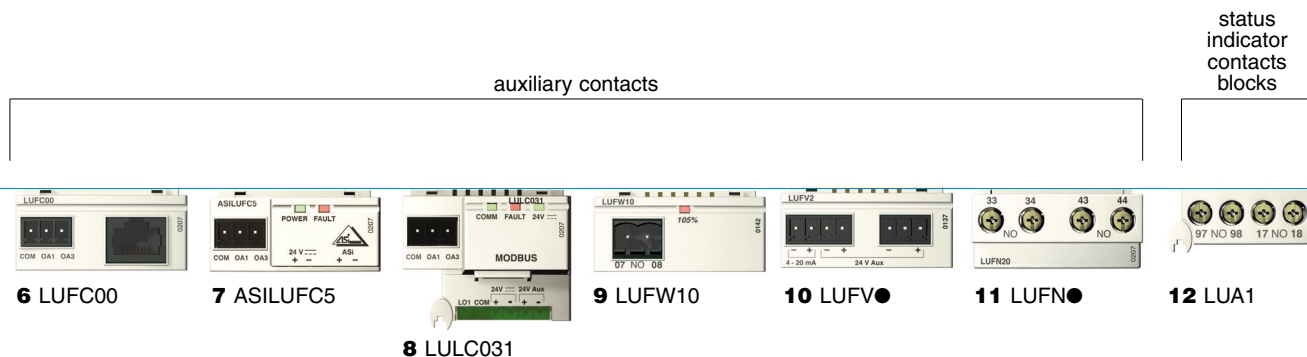
3...12 A **12** 110...240 V AC/DC **FU**

5 ■ multifunction

LUCM▲▲▲BL

8...32 A **32**

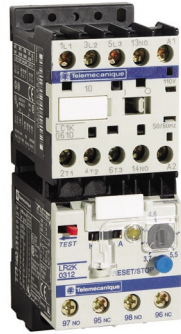
Plug-in Modules



Plug-in Modules	
6 ■ parallel wiring	LUF000
7 ■ As-i communication	ASILUFC5
8 ■ Modbus communication	LULC031
9 ■ alarm	LUFW10
10 ■ indication of motor load	
<input type="checkbox"/> 0-10 V	LUFV1
<input type="checkbox"/> 4...20 mA	LUFV2
■ fault differentiation with	
<input type="checkbox"/> manual reset	LUFDH20
<input type="checkbox"/> automatic reset	LUFDA10
11 ■ Auxiliary contacts	
<input type="checkbox"/> NO + NO	LUFN20
<input type="checkbox"/> NO + NC	LUFN11
<input type="checkbox"/> NC + NC	LUFN02
12 ■ Status indicator contacts blocks	
<input type="checkbox"/> fault + ready	
NO + NO	LUA1C20
NC + NO	LUA1C11
<input type="checkbox"/> fault + instantaneous contact	
NC + NO	LUA1D11
■ Prewired connectors	
<input type="checkbox"/> for LU2●● power base	LU9BN11C
<input type="checkbox"/> for LU2B●● power base	LU9MR1C

Module choices according to control unit used						
	6 LUF000	7 ASILUFC5	8 LULC031	9 LUFW10	10 LUFV●	11 LUFN●
3 LUCA	x	x	x			x
4 LUCB, LUCC, LUCD	x	x	x	x	x	x
5 LUCM	x	x	x		x	x

Other Advanced TELEMECANIQUE Motor Starter Technologies from Schneider Electric



K-Line IEC Contactors and Starters

K-Line Mini-Contactors and Overload Relays are ideal for general duty applications where small size and reliability are key concerns. Available in three ratings up to 10 HP at 600VAC, K-Line devices feature a special armature structure design that allows all devices and all operating coils, either AC or DC, to have the same physical size and panel footprint. Devices are available with low consumption DC operating coils for direct connection to PLC circuits.



Manual Starter and Protector

The TELEMECANIQUE GV2 and GV3 devices incorporate a manual disconnect, overload relay and instantaneous magnetic trip mechanism in one compact device. They can be used as stand-alone manual starters or to protect each brand circuit of a group motor installation.



TeSys D-Line Contactors and Thermal Overload Relays

TeSys D-Line contactors from 9 to 150 amps represent excellence in motor control technology. With a compact design, D-Line contactors reduce panel space demands with a standard width of 45 mm for contactors up to 32 amps, or 30 HP at 600 VAC and 90 mm for reversing contactors. All D-Line units incorporate the unique Quickfit technology that reduces installation time by up to 50% and wiring time of motor starters in a group installation by as much as 80%.

Schneider Electric

North American Division
Square D Company
8001 Highway 64 E
Knighdale, NC 27545

www.SquareD.com