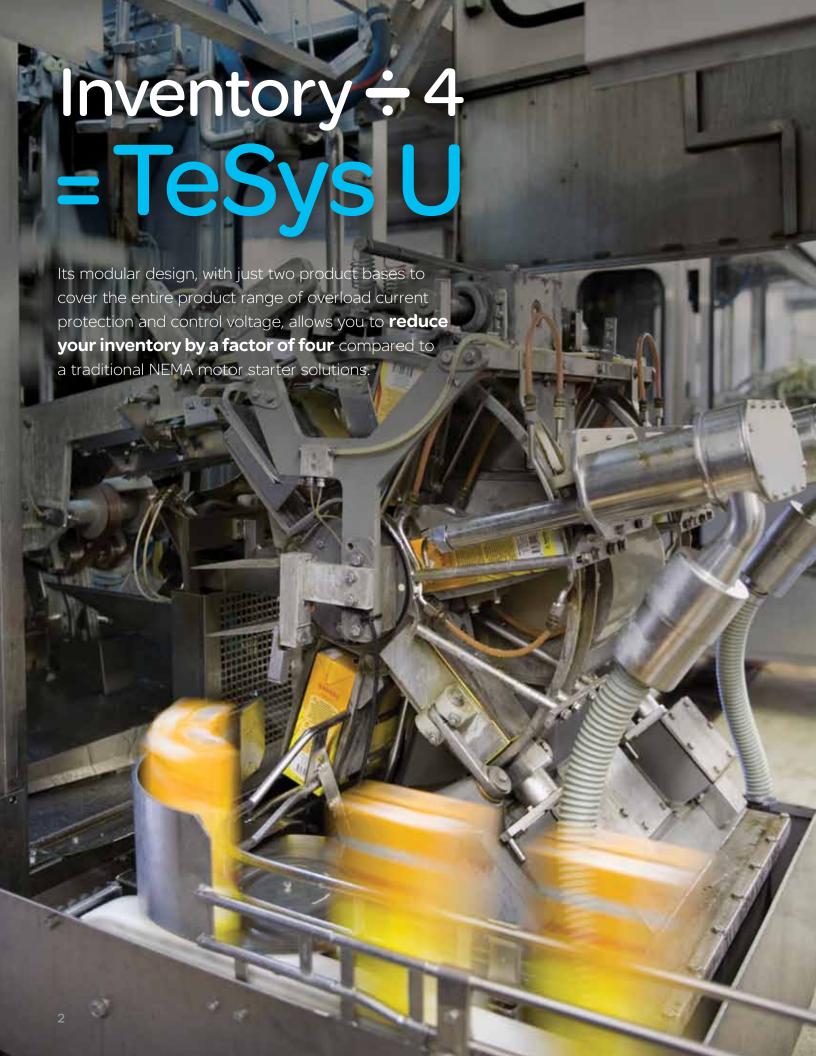
# Easy to choose, install and use

### TeSys® U combination motor starter

It integrates a short circuit protection disconnect switch, an overload relay and a contactor

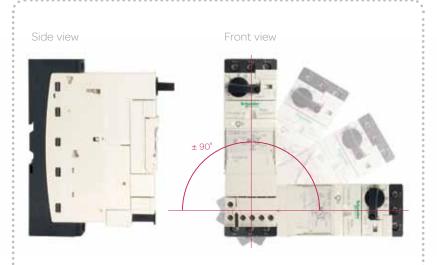






# Simple

## to choose to install to use



The TeSys U self-protected combination motor starter is simple to select and use and fits into your required panel installations. Units can be mounted side by side, vertically or horizontally to create space within your control panel.

The TeSys U NEMA-rated self-protected combination motor starter from Schneider Electric uses a patented modular design that simplifies selection, reduces inventory and minimizes wiring to deliver energy efficiency, protection and savings for you and your equipment.

Just two product bases cover the entire range of overload current protection up to 32 A or NEMA size 1 and control voltage. Simply choose your base module and snap together the short circuit protection, overload relay and contactor you need. It's that simple. And the results are extraordinary. The TeSys U motor starter minimizes inventory by up to 75%, reduces wiring time by 45% and eliminates compatibility issues between your contactor, breaker and relay by integrating them into a single product.

Don't worry about using coordination tables to design your equipment, because the TeSys U motor starter is fully coordinated up to 65 kA 480 V WYE according to UL 508 Type E, which validates the total coordination of the power circuit. This saves you time and gives you peace of mind when specifying and designing your equipment.



\* 65 kA 480 V, WYE, UL 508 Type E

## Our markets...



Conveyance



**Packaging** 



**Control Panel** 



Pharmaceutical Food & Beverage



Automotive



Industry



Metal, Minerals & Mining



Water Wastewater



Oil & Gas



**Airports** 



**Pumping** 



**HVAC** 











## Superior performance you can trust

#### Reduced downtime

The TeSys U motor starter performance under short circuit conditions is outstanding.

The TeSys U motor starter is rated 65 kA at 480Y VAC according to UL 508 Type E, which means that the TeSys U motor starter is current limiting and actually restart the system immediately after the fault is cleared! A traditional motor starter solution (not UL 508 Type E) typically requires significantly more time to restart because the starter contacts may have welded after a short circuit event and products may have to be replaced.

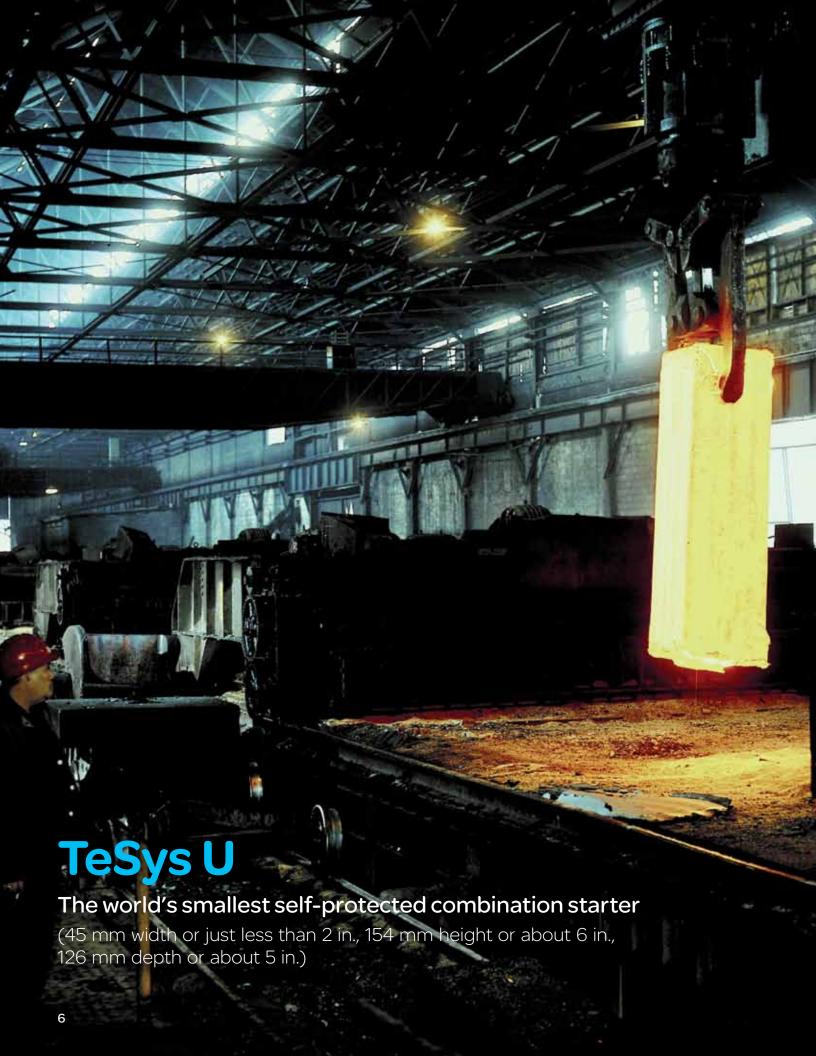
#### Robust reliable design

The TeSys U motor starter increases productivity and uptime, thereby cutting your operation costs, by offering durability and reliability you can trust. It significantly extends product life thanks to:

- Only 8 connections (6 power connections and 2 control voltage connections). A traditional solution can have up to 3 sets of contacts and numerous electrical connections
- Electronic controls avoid bouncing the contacts, which makes the power poles last longer
- State-of-the-art electronic components that are selected and tested to ensure maximum performance and connectivity
- Electronic protection that eliminates variations caused by harsh environmental conditions such as temperature, dust, moisture and vibration



100% RoHS compliant



## Flexibility through modularity

The modularity of the units also allows you to pick only the features and functionality you require and quickly create a single product by snapping the components together. It saves you time by enabling you to mix, match and adapt your solution on the go by allowing you to wire the power base in advance of selecting your control unit. This gives you the flexibility to wire the base in your panel without knowing the exact size of the motor used in your application.

#### Optional Features

#### **Reversing module**

A phase reverse module can be mounted below the power base or to the side. This module adds only 70 mm (3 in.) in height and creates a reversing starter that is only 45 mm wide.

#### **Integrated communications**

The TeSys U motor starter offers your choice of integrated communication using 5 field buses: Modbus, ASi, Profibus, DeviceNet and CANopen as well as Advantys™ STB. All of which can be added to the standard bases to create a single unit.

#### **Predictive Maintenance**

TeSys U motor starter offers a predictive maintenance module that analyzes and manages your critical applications in order to give you advanced warning that an event such as excessive current, a phase imbalance or a ground fault could occur, allowing you to take corrective action to avoid system downtime or delay.



Available communication networks:



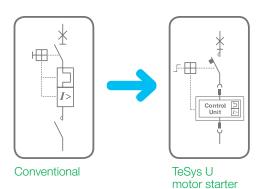








### Reduce your energy costs



Energy management is core to the value the TeSys U motor starter provides. The unique design and exceptional performance better manages energy and reduces the loss of energy between components and through wiring. Typical installations achieve a 75% reduction in energy use, while much more is available depending on your application configuration. The chart below shows the typical energy variance in comparison to other solutions.

#### Savings are achieved with the TeSys U motor starter by:

- 1) Managing the coil electronically closes the contacts without wasting electricity to keep connections closed. This saves approximately 80% compared to mechanical solutions.
- 2) The all-in-one design uses only a single set of power contacts to reduce power dissipation which saves approximately 75% compared to a traditional 3-piece starter solution with breakers, contactor and overload relay.

Power dissipation comparison: 20 HP @ constant rated speed

Solution Type	Traditional NEMA Solution	Traditional IEC Solution	TeSys U IEC and NEMA Rated Solution	Constant-torque AC Drive
Energy dissipation	45 W	18 W	9 W	600 W
Additional energy required based on TeSys U motor starter	400%	100%	_	6560%



For more information visit **www.Schneider-Electric.us/TeSysU** or contact your local Schneider Electric sales representative or distributor.

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