

# ELLI 500



## Inrush current limiter

**ELLI500** is a device designed for inrush current limitation, installable between the power switch and the load to prevent both current surges and accidental tripping of circuit breakers.

When connected to a 230 VAC supply, it can deliver up to 40 A output or 20 A continuous (depending on the model) with significantly reduced heat dissipation compared to other solutions.

**ELLI500** is engineered to ensure maximum efficiency and safety in managing current transients, offering a robust and flexible solution for industrial and professional applications.

Thanks to TRIAC-based technology, the device provides a smooth and controlled start-up, reducing electrical stress and improving component protection.

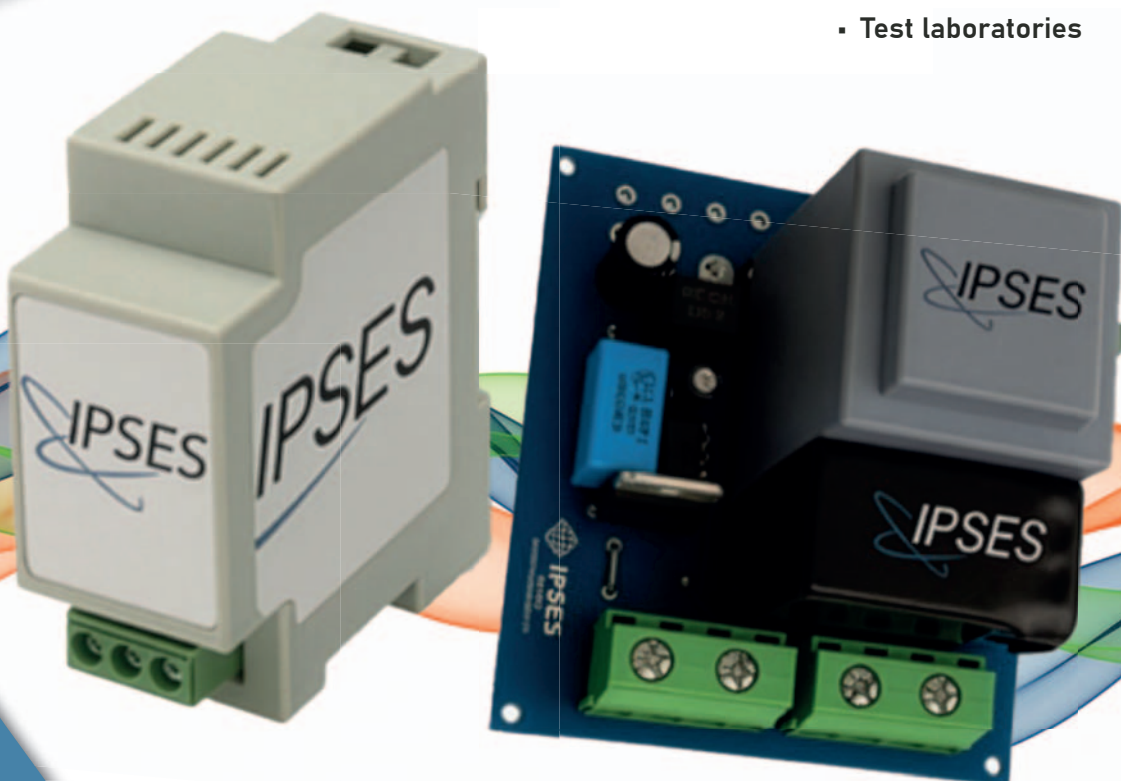
Its modular architecture and customization options make it ideal for complex scenarios where reliability and precision are essential.

## Main Advantages

- Gradual load insertion before the activation of the bypass relay
- Reduction of current peak during relay activation
- Flexibility in setting timing and phase during the start-up transient
- Adaptability to loads with hysteresis cycles and strong saturation

## Typical Applications

- Transformers
- Inductive loads
- Electric motors
- Test laboratories



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### System Description

**ELLI500** is available in two configurations: a version with a DIN rail mounting enclosure and an OEM version (PCBA only), ensuring maximum flexibility for integration into various applications.

The device goes beyond its primary function of managing transients, offering a range of additional features that make it ideal both for powering toroidal transformers and for starting electric motors.

Thanks to a dedicated terminal block, it is possible to connect:

- **Serial connection** to a host for real-time monitoring of the power system
- **Status display** for viewing operating conditions
- **External sensors and devices**, such as temperature probes, switches, and enable signals
- **Custom software implementations** for specific applications, adapting operation to customer requirements

**IPSES** also supports its customers in configuring and installing systems, with the option of fully custom design.



### Technical Specifications

	Min	Typ	Max	Unit
Supply voltage	180	230	260	V <sub>AC</sub>
Max load current (20A version)	0		20	A <sub>AC</sub>
Max load current (40A version)	0		40	A <sub>AC</sub>
Inhibit input	TTL pull-up to GND			
OEM board dimensions	90 mm x 65 mm			
Power and output connectors	Screw terminal			
Signal connectors	Screw terminal			
Operating temperature	-40		80	°C
Relative humidity	0		95	%
Total weight		350		g

### Product Codes

Code	Description
ELLI-DIN-20	DIN rail mounting max 20A
ELLI-DIN-40	DIN rail mounting max 40A
ELLI-OEM-20	OEM version (PCBA only), max 20A
ELLI-OEM-40	OEM version (PCBA only), max 40A

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