

Product Guide

Soft Start Timer

today, tomorrow and in the future

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Product Overview

The E333 Electronic Soft-Start Timer can save up to 30%* in heating costs by automatically controlling electric heaters. When controlling heat lamps or lighting, the unit will extend the life of the element/lamp through the use of the soft-start mechanism upon turn-on and the automatic delayed turn off after a pre-set time. Easy to use, this soft start timer provides an accurate and cost effective solution to an everyday operational requirement.

Featuring a waterproof IP55 rating, the E333 guarantees its suitability in even the harshest of outdoor environments. The user can instantly and easily switch on the heat/light when required and the electronic timer will automatically switch off the equipment after a pre-set delay.

The pre-set delay is fully adjustable between a range of 5 and 60 minutes. The external push button is tamperproof to prevent abuse and cannot be reactivated until the timer has turned off.

The E333 is ideally suited to a number of applications including retrofitting to existing equipment to achieve significant energy savings.

Product Wiring

1. **IMPORTANT:** ensure all electrical connections are isolated before commencing any work on the unit.
2. A 230V AC, 50Hz permanent supply that is fused appropriately for the load should be provided via the Live, Neutral and Earth "Supply" terminals labelled "L", "N" and "E". This supply connection also powers the soft-start timer.
3. The load is connected to the "Output" terminals labelled "L", "N" and "E". Two sets of connections are provided for convenience if two separate loads require simultaneous control from the soft-start timer. NOTE: The total sum of all loads connected must not exceed a maximum of 6kW.

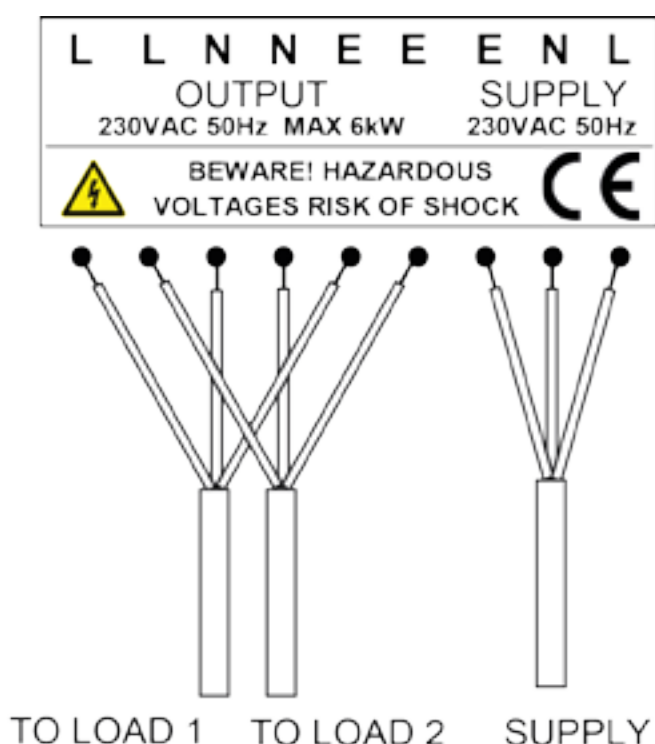


Figure 1 Typical wiring example

Installation

1. **IMPORTANT:** ensure all electrical connections are isolated before commencing any work on the unit.
2. Remove the front cover by undoing the four screws.
3. Remove the lid with care as there is a flexible cable link between it and base of unit.
4. The grey flexible cable connecting the lid and base of the unit can be unplugged from the connector situated on the printed circuit board in the base of the unit.
5. The box can now be prepared for fixing. Drill holes as applicable to accept cable entry. **All joints should be waterproofed.**
6. If cable glands are used, these **must** be rated to IP55 or higher and be of the correct size for the cable you are using to maintain the IP rating.
7. Connect the wiring to the terminal blocks on the soft start timer as shown in Figure 1 (or any suitably appropriate form).
8. The supply and output are 230V 50Hz and output is rated 6 kW maximum.
9. Adjust the internal controls to suit the operational requirements (see below).
10. To reconnect the grey flexible cable ensure that the black line which follows vertically down the edge of cable is inserted into its connector adjacent to the number “1” marker on the printed circuit board. For clarity, this is the same side as the time adjustment dial.
11. Fit the cover securely, ensuring the flexible grey cable does not touch the triac casing (metal topped component standing upright adjacent to the green terminal blocks on printed circuit board in base) as this can get hot.

Operation

1. **IMPORTANT:** ensure all electrical connections are isolated before commencing any work on the unit.
2. Adjust the “On Time” dial to the number of minutes the load should remain on for following a button press by the user.
3. Example of a standard set-up:
 - “On Time” set to 20 minutes
 - Once the external push button has been pressed the LED will illuminate to indicate the commencement of the period.
 - The unit will remain in the ON state for a duration of 20 minutes before automatically turning off.

Technical Specification	
Power supply:	220-240V AC 50Hz (Live/Neutral/Earth)
Output switch rating:	250W minimum <-> 6kW maximum (26A, 230V AC 50Hz (resistive))
Output switch type:	Triac soft-start with relay hold
Delay time range:	5 min to 60 min (fully adjustable)
IP rating:	IP55
Operating temperature:	0 to +40°C
Guarantee:	5 Years
Weight:	0.35Kg
Dimensions mm:	110mm x 168mm x 80mm

Technical Support

For further help or information on this and the other products in the ms electronics range visit www.mselectronics.co.uk or call 0333 666 1176.

Alternatively, email techsupport@mselectronics.co.uk
Additional copies of this product guide can be downloaded from our website.

Product Warranty

M.S. Electronics guarantees all their products against manufacturing defects for 5 years from the purchase date. If your product is found to be faulty, M.S. Electronics will, at their discretion, repair or replace the product free of charge.

Note

Any modification or damage to the outer casing of the thermostat, as well as any damage to the product due to abuse or incorrect wiring may invalidate the guarantee.



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