

SpeedControl 40 / 80 E/ED/E Pot S

Description

SpeedControl 40 and 80 is a so called leading edge controller for adjusting fan motors, incandescent lamps or ironcore transformers.

The SC40/80 unit supplies a motor output voltage which is following a control signal of 0-10V DC or a potentiometer. It can also be controlled by e.g. a Z-point potentiometer or a MultiController E (accessories).

It is possible to adjust the limits for minimum and maximum output voltage and soft start time, using the trimmers MIN, MAX and SOFT. See Setting / Adjustment.

It is also equipped with a start/stop input and voltage output for supply of external units.

Note: a green LED on the board flashes slowly when motor is turned off and fast when motor is operating.



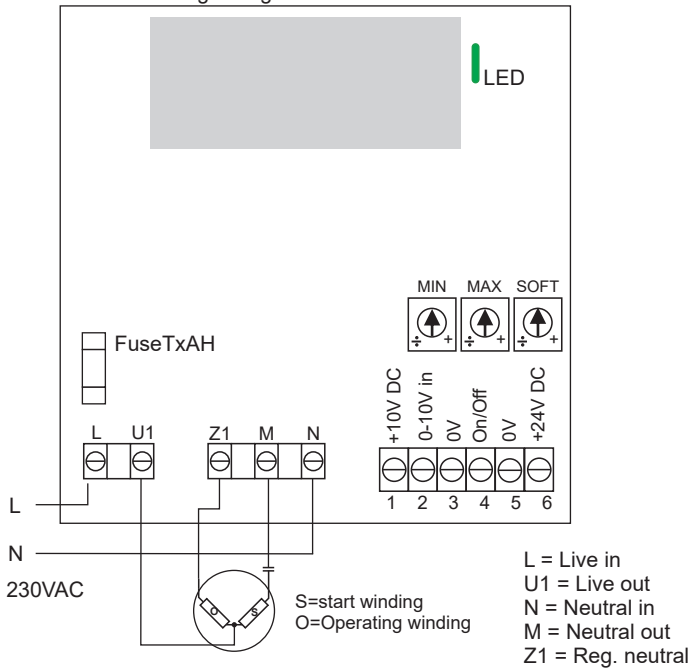
Mounting

Sufficient cooling is to be provided, especially at high ambient temperature. Holes may be drilled at the top and the bottom of the box for air circulation

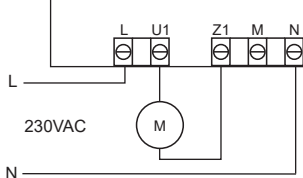
NB: The IP Class will change if holes are drilled in the box.

Terminal Connection

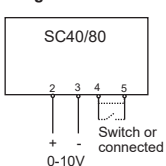
Connection for regulating a 3-wire motor



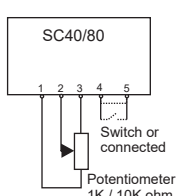
Example of connection to 2-wire motor or lamp



0-10V signal connection



Potentiometer connection



Setting / Adjustment

Adjustment of minimum and maximum limits:

Turn MIN and MAX trimmers to minus.

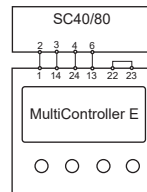
Adjust the control signal to minimum. Adjust the MIN trimmer to the desired output voltage at 0V on terminal 2 and terminal 4+5 connected.

adjust the control signal to maximum. Adjust the MAX trimmer to the desired output voltage at 10V on terminal 2 and terminal 4+5 connected. Do not turn it more than required, as it will reduce the active control range.

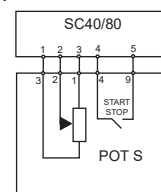
Soft start time between 1 and 20 sec. can be set on the trimmer SOFT.

Accessories:

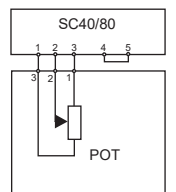
Connection to MultiController E



Connection to POT S potentiometer with switch



Connection to POT potentiometer without switch



Technical Specifications

Supply:	230V AC 50Hz max. 13A
Load:	4A or 8A depending on model
Dimensions 4A (HxWxD):	200x120x75mm
Dimensions 8A (HxWxD):	240x120x100mm
Control Signal Input:	0-10V DC, min. 0,1 mA
10V Output Load:	Max 25 mA
24V Output Load:	Max 200 mA
Operating Temperature:	0-50°C
IP-Class:	IP54

The control signal input is galvanic separated by double isolation.

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 Rev.: 1.0
 Manufactured by: **LS Control A/S**, Industrivej 12, DK-4160 Herlufmagle