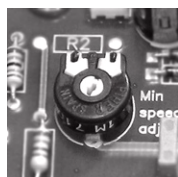


1. mains supply 230 Vac - 50 Hz
2. fuse
3. output motor
4. * 230 Vac not regulated output for connecting lamp, valve, dampers ... or three wire motor connection; branched off after switch and fuse
* input: to bypass switch and fuse (ATTENTION)
5. jumper removed = normal working mode
jumper in place = 'hard start' working mode
6. minimum speed adjustment trimmer

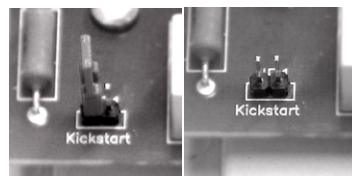
CE According to the low voltage directive: 2006/95/EC / the EMC directive: 2004/108/EC



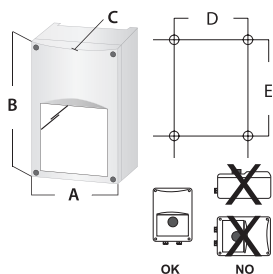
minimum speed adjustment trimmer



Hard start



Normal start



	A	B	C	D	E	net weight	gross weight
STL1	83	160	66	71	108	290 gr	360 gr
STL3	83	160	66	71	108	350 gr	410 gr
STL5	83	160	81	71	108	440 gr	530 gr
STL6	115	195	95	98	140	675 gr	765 gr
STL10	115	195	95	98	140	650 gr	740 gr

EN Mounting instructions

Speed controller for single phase voltage controllable motors.

Technical data

Voltage	230 Vac - 50 Hz
Current range	Fuse
STL1 (STL-0-01-AT): 0.1-1.5 A	F 3.0 A
STL3 (STL-0-03-AT): 0.1-3.0 A	F 5.0 A
STL5 (STL-0-05-AT): 0.2-5.0 A	F 8.0 A
STL6 (STL-0-06-AT): 0.5-6.0 A	F 10.0 A
STL10 (STL-0100-AT): 0.5-10.0 A	F 16.0 A
Enclosure: plastic R-ABS, UL94-V0, grey RAL 7035	
Max ambient temperature: 35 °C	

The electronic speed controllers of these series control the speed of single phase (230 Vac - 50/60 Hz) voltage controllable motors by varying the supplied voltage through phase angle control.

There is a potentiometer and a separate ON/OFF switch with built in telltale, the minimum speed allowed can be adjusted internally with a little trimmer (factory preset = 100 V). The terminal board has a supplementary connection to bypass the ON/OFF switch (automatic start) or to branch off 230 V not controlled (three wire motor connection, valve, lamp, damper, etc ...).

There are two working modes, internally selectable by placing or removing the red jumper on the PCB (see illustration).

1. 'Hard' start: The motor will always start (or restart) at max. speed for 8-10 seconds, after that the motor speed automatically follows the position of the potentiometer.

2. Normal start: the motor starts according to the position of the potentiometer.

The IP 54 case allows the use in most demanding environments.

1. Be sure that the controller is in OFF position.
2. Take off the box cover by loosening the 4 screws. Note that the potentiometer is connected to the PCB with 2 wires.
3. Connect mains, motor(s) and earth cables of the proper diameter to the terminals according to the scheme below.
4. Start the controller and adjust the minimum speed: with the potentiometer at minimum, adjust the little trimmer so that the motor continues turning or restarts smoothly in case of power faults. The minimum speed is factory preset at 100 V.
5. Close the box and verify that the installation works fine.
6. The operating position must be as shown below.

Connections (fig.)

L1:

- Input to bypass the On/Off contact
- Output: 230 V not regulated

Warranty

Two years from delivery date against defects in manufacturing. Any modifications or alterations to the product relieve the manufacturer of all responsibility.

The manufacturer bears no responsibility for any misprints or mistakes in this data, and modifications or improvements to the product can be made at any time after date of publication.

Transport and stock keeping

Avoid shocks. Stock In original packaging. Avoid extreme conditions

Maintenance

In normal conditions the controllers are maintenance-free. If soiled clean with dry or dampish cloth. In case of heavy pollution clean with a non-aggressive product. In these circumstances the controller should be disconnected from the mains. Pay attention that no fluids enter the controller. Only reconnect the controller to the mains when it is completely dry.

Motor protection

It is always recommended to install a proper motor protection device.



All works may only be carried out by skilled personnel following the local regulations and AFTER the controller is completely separated from the mains.

Replace fuse only with same type and rating.