MANUAL SPEED CONTROLLERS

TLR 500 SERIES

Industrial Series | Single-phase AC motors | 3 A to 10 A

Industrial single-phase speed regulators with high benefits for the management of high quality industrial single-phase AC motors.

The TLR 500 series works from 3 A to 10 A. Each series incorporates luminous ON/OFF switch, internal speed adjust, fuse protection and sealed box (IP54).

Regulators can be supplied in 2 different versions:

- From minimum to maximum regulation
- From maximum to minimum regulation: version “A”



3–10 A	230 Vac	IP54	EMC
Rated current range	50 / 60 Hz selectable	Sealed ABS box, RAL 7035	EN55014-1:2017 filter

Specifications

ELECTRICAL & CONTROL

- Voltage 230 Vac / 50 Hz
- Control by means of a potentiometer
- Min speed: internally adjustable
- Max speed: internally adjustable
- Max intensity: 1,5 A – 10 A according to model
- Min intensity: 0,5 A – 1 A according to model
- Quick-start selection (SW1-1)
- Acceleration ramp (SW1-2)
- Frequency 50 Hz or 60 Hz (SW1-3)
- Regulation Min to Max / Max to Min (SW1-4)

CONSTRUCTION & ENVIRONMENT

- Red luminous ON/OFF switch on side
- Connection by terminal blocks
- HF fuse: 3 A – 10 A according to model
- EN55014-1:2017 EMC filter standard
- Closure IP54
- ABS plastic box, RAL 7035
- Ambient temperature range: 0–35 °C
- Storage temperature range: 0–40 °C

Models & codes

MODEL	MAX. INTENSITY	MIN. INTENSITY	REGULATION	FUSE	CODE
Standard version – regulation from minimum to maximum					
TLR 503	3 A	0,5 A	Min-Max	3,15 A	**096305**
TLR 505	5 A	0,8 A	Min-Max	5 A	**096310**
TLR 510	10 A	1 A	Min-Max	10 A	**096315**
Version “A” – regulation from maximum to minimum					
TLR 503-A	3 A	0,5 A	Max-Min	3,15 A	**096325**
TLR 505-A	5 A	0,8 A	Max-Min	5 A	**096330**
TLR 510-A	10 A	1 A	Max-Min	10 A	**096335**

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Main advantages

- Specially designed for ventilation systems
- **Controlled by microprocessor**
- Protected by fuse
- Flow proportion reduction in centrifugal pumps
- High quality and low price
- Easy installation

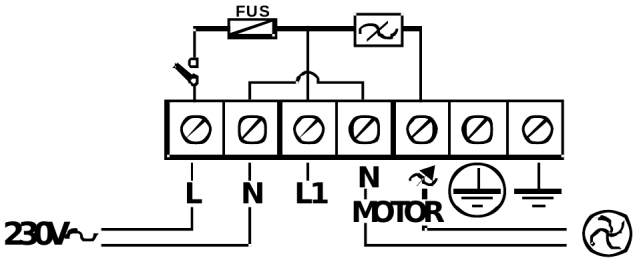


CE NORMS

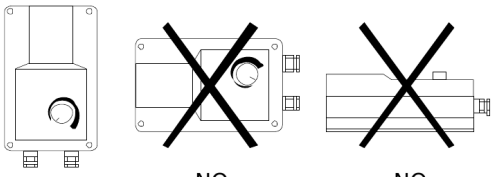
- EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU compliant
- RoHS compliant

Wiring diagram

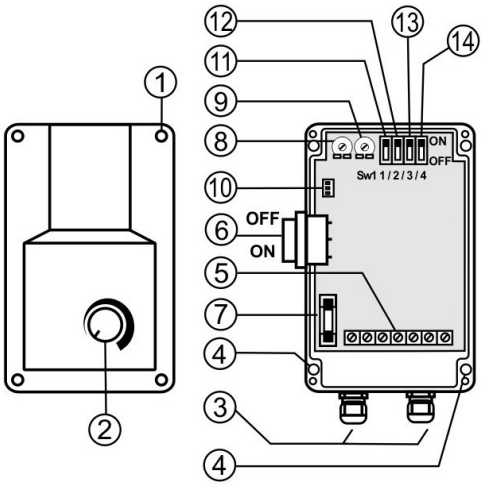
Connection diagram



Operating position



Internally adjustable speeds and NEW parameter adjustments



1 Hold cover screw
2 Button
3 Input wires cable glands
4 Clamping holes
5 Connection terminal
6 Switch with indicator lamp
7 Fuse
8 Minimum speed adjustment
9 Maximum speed adjustment
10 Connector potentiometer
11 Switch for kick start selection
12 Switch for acceleration ramp selection
13 **Switch for frequency selection 50/60Hz**
14 **Switch for regulation direction**