



The MT controllers provide manual control of the rotational speed of voltage controllable (230 VAC / 50 Hz) motors by varying the supplied voltage through phase angle control. They are suitable for both inset and surface mounting. Several motors can be connected as long as the current limit is not exceeded. All models have an extra (unregulated) 230 VAC output.

Key features

- Infinitely variable speed control
- Regulation from minimum to maximum speed (MTY) and from maximum to minimum speed (MTX)
- Minimum speed adjustable by internal trimmer
- Fuse 5*20 mm, spare fuse included
- OFF position can be disabled to obtain continuous operation of the fan

Area of use

- Manual control of the motor / fan speed in HVAC applications
- For indoor use only

Article codes

Article code	Rated current range [A]	Fuse (5*20 mm) [A]
OUTPUT REGULATION FROM MINIMUM TO MAXIMUM		
MTY-0-05-AT	0,05—0,5	F-0,63 A-H
MTY-0-15-AT	0,1—1,5	F-2,00 A-H
MTY-0-25-AT	0,2—2,5	F-3,15 A-H
MTY-0-40-AT	0,4—4,0	F-5,00 A-H
OUTPUT REGULATION FROM MAXIMUM TO MINIMUM		
MTX-0-05-AT	0,05—0,5	F-0,63 A-H
MTX-0-15-AT	0,1—1,5	F-2,00 A-H
MTX-0-25-AT	0,2—2,5	F-3,15 A-H
MTX-0-40-AT	0,4—4,0	F-5,00 A-H

Technical specifications

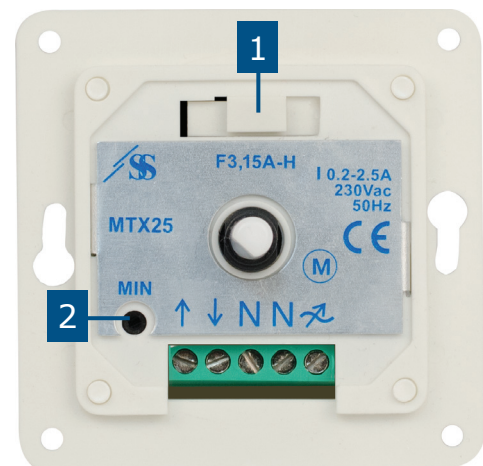
Power supply	230 VAC ±10 % / 50 Hz	
Regulated output	80—230 VAC	
Unregulated output	230 VAC / max. 2 A	
Min. speed adjustment	80—180 VAC	
Ambient conditions	Temperature	0—35 °C
	Relative humidity	< 100 % rH (non-condensing)
Protection standard	IP44 / IP54 (according to EN 60529)	

Standards

- EMC directive 2014/30/EU:
 - EN 60730-1:2011 Automatic electrical controls for household and similar use - Part 1: General requirements
 - EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light industrial environments
 - EN 61000-6-3:2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments Amendments A1:2011 and AC:2012 to EN 61000-6-3
 - EN 61000-3-2:2014 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
- Low Voltage Directive 2014/35/EU
 - EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
 - EN 60730-1:2011 Automatic electrical controls for household and similar use - Part 1: General requirements
- RoHS Directive 2011/65/EU



Settings



1 - Fuse holder		with a spare fuse
2 - Minimum speed adjustment trimmer		Adjusts the min. speed (factory preset 100 VAC)

Wiring and connections

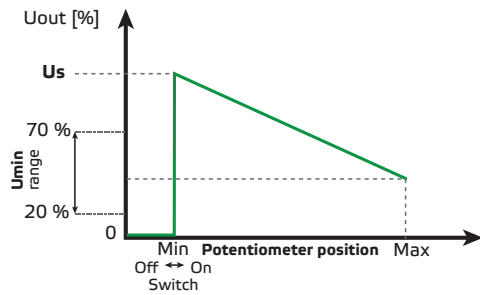
↑	Power supply (230 VAC ±10 % / 50 Hz)
↓	Unregulated output / input to disable OFF position
N	Neutral
	Regulated output to motor
Connections	Cable cross section: max. 2,5 mm ²

Note: To disable the OFF position, connect the 230 VAC supply voltage to the unregulated output (↓). In this case, do not connect the power supply to: ↑.

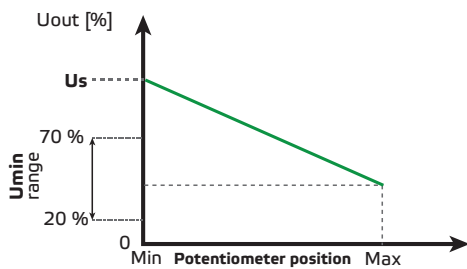


Operational diagrams MTX (maximum to minimum)

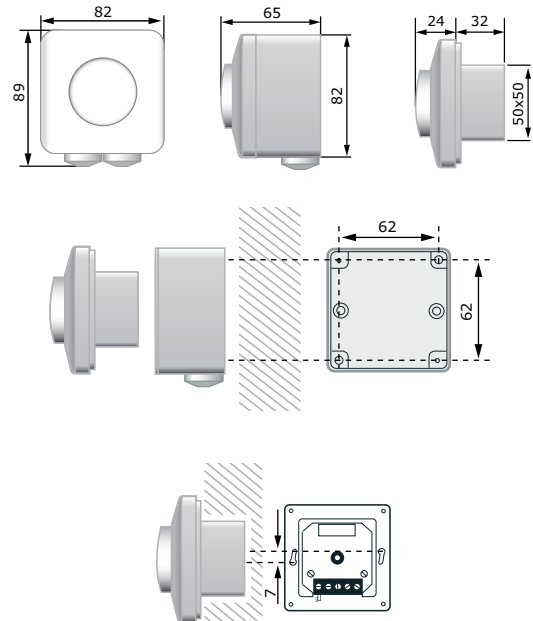
OFF position enabled: supply voltage connected to ↑ and N



OFF position disabled: supply voltage connected to ↓ and N



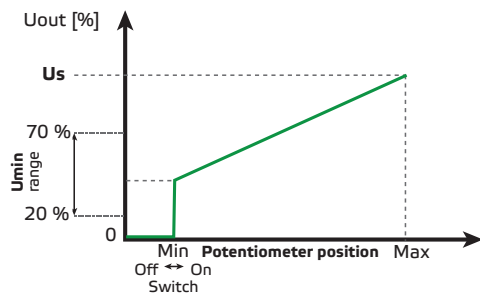
Fixing and dimensions



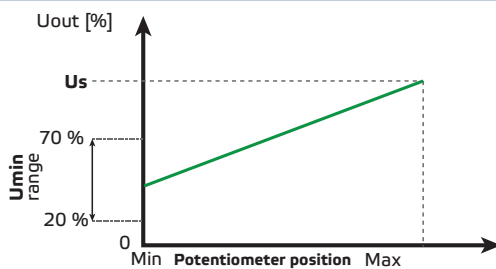
Attention! **MTX-0-40-AT** and **MTY-0-40-AT** are suited for surface mounting only!

Operational diagrams MTY (minimum to maximum)

OFF position enabled: supply voltage connected to ↑ and N



OFF position disabled: supply voltage connected to ↓ and N

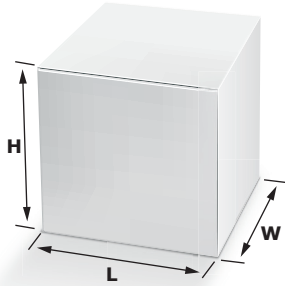




MT

Electronic fan speed controller

Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
MTX-0-05-AT MTY-0-05-AT	Unit (1 pc.)	85,5	95,5	70,5	0,17 kg	0,19 kg
	Carton (10 pcs.)	492	182	84	1,70 kg	2,05 kg
	Box (60 pcs.)	590	380	280	10,20 kg	13,29 kg
MTX-0-15-AT MTY-0-15-AT MTX-0-25-AT MTY-0-25-AT	Unit (1 pc.)	85,5	95,5	70,5	0,17 kg	0,19 kg
	Carton (10 pcs.)	492	182	84	1,70 kg	2,05 kg
	Box (60 pcs.)	590	380	280	10,20 kg	13,29 kg
MTX-0-40-AT MTY-0-40-AT	Unit (1 pc.)	85	96	71	0,24 kg	0,26 kg
	Carton (10 pcs.)	485	182	84	2,40 kg	2,75 kg
	Box (60 pcs.)	580	380	280	14,40 kg	17,49 kg

Global trade item numbers (GTIN)

Packaging	Unit	Carton	Box
MTX-0-05-AT	05401003008959	05401003301449	05401003502112
MTY-0-05-AT	05401003009017	05401003301500	05401003502174
MTX-0-15-AT	05401003008973	05401003301463	05401003502136
MTY-0-15-AT	05401003009031	05401003301524	05401003502198
MTX-0-25-AT	05401003008997	05401003301487	05401003502150
MTY-0-25-AT	05401003009048	05401003301531	05401003502204
MTX-0-40-AT	05401003009000	05401003301494	05401003502167
MTY-0-40-AT	05401003009055	05401003301548	05401003502211