



Description

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. Multiple motors can be connected, as long as the maximum current is not exceeded. All models feature an additional (unregulated) 230 VAC output.

Key Features

- Continuously variable fan speed control
- Regulation from minimum to maximum speed (MTYN) and from maximum to minimum speed (MTXN)
- 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 Code

Article code	Rated current range [A]	Fuse (5*20 mm) [A]
Output regulation from minimum to maximum		
MTYN0-05-AT	0,05—0,5	F-0,63 A-H
MTYN0-15-AT	0,1—1,5	F-2 A-H
MTYN0-25-AT	0,2—2,5	F-3,15 A-H
MTYN0-40-AT	0,4—4	F-5 A-H
Output regulation from maximum to minimum		
MTXN0-05-AT	0,05—0,5	F-0,63 A-H
MTXN0-15-AT	0,1—1,5	F-2 A-H
MTXN0-25-AT	0,2—2,5	F-3,15 A-H
MTXN0-40-AT	0,4—4	F-5 A-H

Technical Specifications

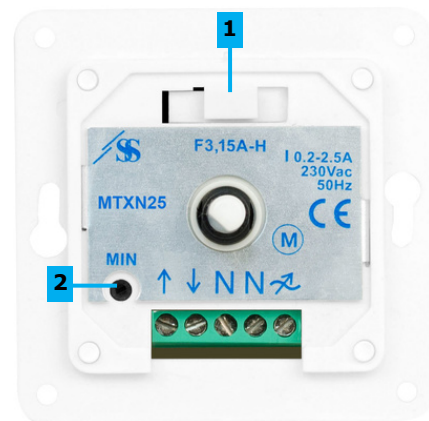
Power supply	230 VAC ±10 % / 50 Hz
Regulated output	80—230 VAC
Unregulated output	230 VAC / max. 2 A
Min. speed adjustment	80—180 VAC
Ambient conditions	
Temperature	0—35 °C
Relative humidity	< 100 % rH (non-condensing)
Protection standard	IP44 / IP54 (according to EN 60529)

Standards

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- WEEE Directive 2012/19/EU
- Commission Delegated Directive (EU) 2015/863 (RoHS 3) of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances



Settings



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

Wiring and Connections

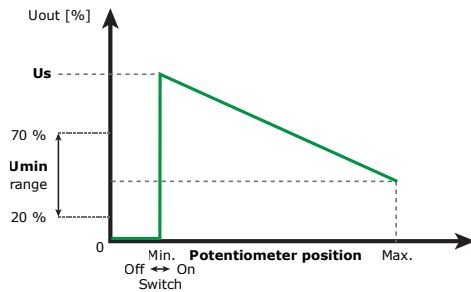
↑	Power supply (230 VAC ±10 % / 50 Hz)
↓	Unregulated output / input to disable OFF position
N	Neutral
	Regulated output to motor
Connections	Cable cross section: max. 2,5 mm ²

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: ↑.

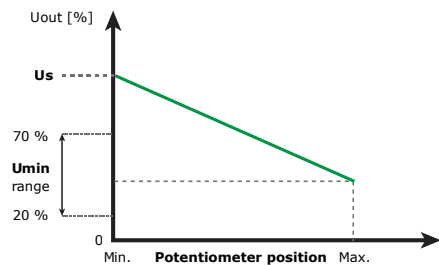


Operational Diagrams MTXN (max. to min.)

OFF position enabled: supply voltage connected to ↑ and N

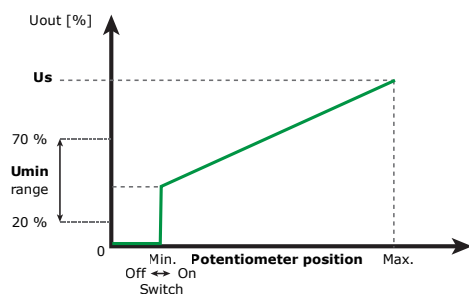


OFF position disabled: supply voltage connected to ↓ and N

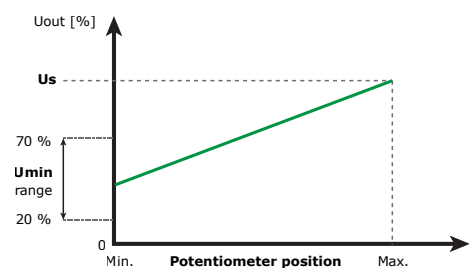


Operational Diagrams MTYN (min. to max.)

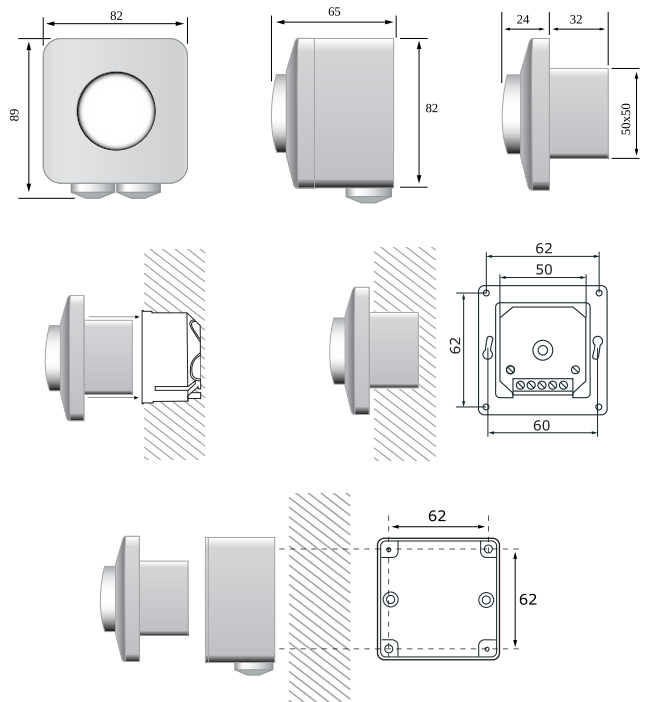
OFF position enabled: supply voltage connected to ↑ and N



OFF position disabled: supply voltage connected to ↓ and N



Fixing and Dimensions



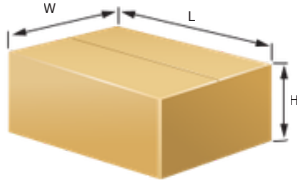
Attention! *MTXN0-40-AT* and *MTYN0-40-AT* are suited for surface mounting only!

Global Trade Item Numbers 14 (GTIN 14)

Article code	Unit	Carton	Box
MTYN0-05-AT	5401003008959	5401003301449	5401003502112
MTYN0-15-AT	5401003009031	5401003301524	5401003502198
MTYN0-25-AT	5401003009048	5401003301531	5401003502204
MTYN0-40-AT	5401003009055	5401003301548	5401003502211
MTXN0-05-AT	5401003008959	5401003301449	5401003502112
MTXN0-15-AT	5401003008973	5401003301463	5401003502136
MTXN0-25-AT	5401003008997	5401003301487	5401003502150
MTXN0-40-AT	5401003009000	5401003301494	5401003502167



Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
MTXN0-05-AT MTYN0-05-AT MTXN0-25-AT	Unit (1 pc)	85,50	95,50	70,50	0,17	0,19
	Carton (10 pcs)	492	182	84	1,70	2,05
	Box (60 pcs)	590	380	280	10,20	13,29
MTXN0-15-AT	Unit (1 pc)	85,50	95,50	70,50	0,17	0,19
	Carton (10 pcs)	492	182	84	1,73	2,08
	Box (60 pcs)	590	380	280	10,38	13,47
MTYN0-15-AT	Unit (1 pc)	85,50	95,50	70,50	0,17	0,19
	Carton (10 pcs)	492	182	84	1,74	2,09
	Box (60 pcs)	590	380	280	10,44	13,53
MTYN0-25-AT	Unit (1 pc)	85,50	95,50	70,50	0,17	0,19
	Carton (10 pcs)	492	182	84	1,72	2,07
	Box (60 pcs)	590	380	280	10,32	13,41
MTXN0-40-AT MTYN0-40-AT	Unit (1 pc)	85,50	95,50	70,50	0,24	0,26
	Carton (10 pcs)	492	182	84	2,40	2,75
	Box (60 pcs)	590	380	280	14,40	17,49

