Advantages:

- Robust design with steel lifting unit
- High degree of protection and performance
- Self-locking trapezoidal screw

Typical areas of application:

- Industrial and construction engineering
- Vehicle and boat construction
- Forestry and agricultural technology
- Antenna and solar technology

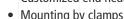
Key figures:

- 230 VAC motor with thermal overload protection
- Up to 3500 N (dynamic)
- Up to 23 mm/sec
- 4500 N (static)
- Protection class IP54
- Ambient temperature -25 °C to +65 °C
- Duty cycle 25 %
- Overload clutch

Options:

- Potentiometer
- Adjustable limit switches



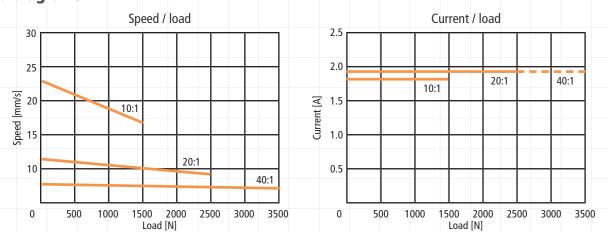




Drive data:

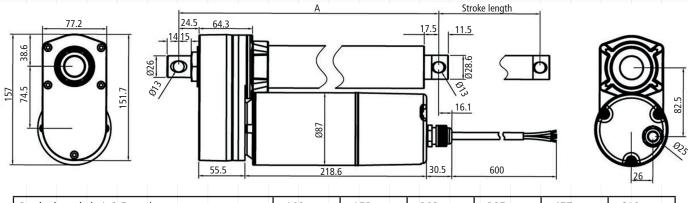
_	Ratio	Max. compression force	Max. pulling force		ed,	Possible stroke lengths	Max. current no load	Max. current full load	
		dynamic	dynamic	no load	full load	stroke leligilis	110 loau	Tull Toda	
		[N]	[N]	[mm/s]	[mm/s]	[mm]	[A]	[A]	
	10:1	1500	1500	23	17	102-610	1.8	1.8	
_	20:1	2500	2500	12	8.5	102-610	1.9	1.9	
	40:1	3500	3500	6	4.5	102-610	1.9	1.9	

Load diagrams:



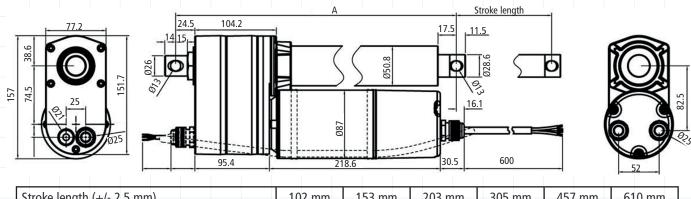
VIA5	-	230	-	20	-	Α		-	100	-	ES.POT
Туре		Voltage		Ratio		Trapezoidal	screw		Stroke length	1	Options
				10 - 10:1					100 - 102 mm	1	ES - Limit switches, adjustable
				20 - 20:1					150 - 153 mm	1	POT - Potentiometer
				40 - 40:1					200 - 203 mm	า	I - Protection class IP65
									250 - 254 mm	1	C1, C2, C3, C4, C5 - Position of the
									300 - 305 mm	1	housing bore
									450 - 457 mm	1	
									600 - 610 mm	1	

Dimensions (standard):



Stroke length (+/- 2.5 mm)	102 mm	153 mm	203 mm	305 mm	457 mm	610 mm
Installation length A (+/- 3.8 mm)	262 mm	313 mm	364 mm	465 mm	668 mm	821 mm

Dimensions (with limit switches and/or potentiometer):



Stroke length (+/- 2.5 mm)	102 mm	153 mm	203 mm	305 mm	457 mm	610 mm
Installation length A (+/- 3.8 mm)	302 mm	353 mm	404 mm	505 mm	708 mm	861 mm

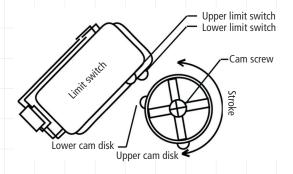


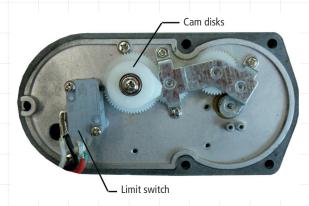
Setting the limit switches:

The extended end position is set via the upper cam disk, the retracted end position via the lower cam disk. If necessary, the end positions can be adjusted according to the following points.

To prevent damage to the plastic gear unit, the cam disks must be held in place while loosening or tightening the cam screw.

- 1. If the electric cylinder is attached, loosen the connections. Open the gearbox cover by loosening the 5 hexagon socket screws.
- 2. Make sure that the lifting tube does not rotate during motorized adjustment. Retract the electric cylinder electrically until the lower cam disk triggers the limit switch and the motor switches off. Turn the lifting rod manually to the desired retracted position.
- 3. Make sure that the lifting tube does not rotate during motorized adjustment. Extend the cylinder electrically until the desired position is reached. Adjust the upper cam disk until it triggers the limit switch.

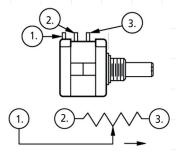




Potentiometer:

The resistance of the tapping of the potentiometer changes as a function of the stroke length and the actuating position of the electric cylinder according to the table below:

Resistance between blue and white conductor						
Stroke [mm]	Resistance (kΩ)					
100	0.3 - 8.0					
150	0.3 - 8.5					
200	0.3 - 9.1					
300	0.3 - 8.6					
450	0.3 - 9.2					
600	0.3 - 9.8					
Tolerance: \pm 0.3 (k Ω)						



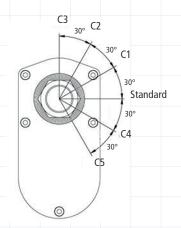
- 1. Blue conductor
- 2. Yellow conductor
- 3. White conductor



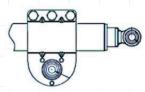
The lower fixing eye is fixed at an angle of 90° as standard.

It is possible to choose other angles (see left graphic) when ordering. Then add the corresponding designation C1 to C5 to the type code.

Furthermore, it is possible to order mounting clamps for pipe installation.



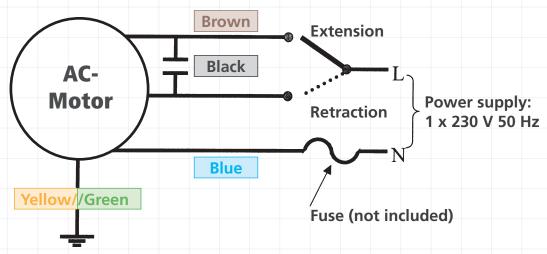
Attachment with mounting clamp:



Installation note:

The piston rod extends or retracts according to the pin assignment. If limit switches are integrated in the cylinder, the motor stops automatically in the respective end position.

If no limit switches are integrated, it must be ensured that the motor is switched off before reaching the respective mechanical end position. The motor must be protected against overcurrent by a fuse.



The load should always be centered in the direction of movement. Lateral forces should be avoided. They always shorten the service life and in extreme cases can interfere with the function or even destroy the device.

Ensure that the permissible load is not exceeded.

