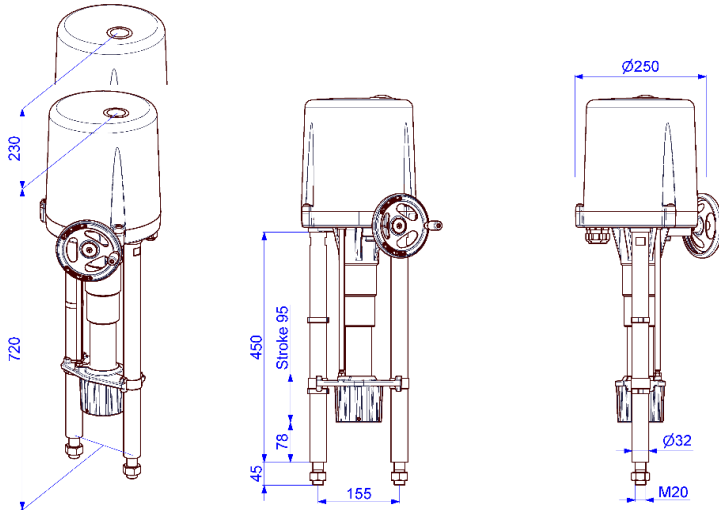


# Intelligent Linear Actuator



**Approx. weight: 23 kg without accessories**

Dimensions are only valid for connections to M20!

**PSL320-325  
AMS13**

**Positioner integrated**

**20 kN/25 kN**  
Max. Force )<sup>1</sup>

**0.2 - 0.4 mm/s**  
Operating speed

**max. 95 mm**  
Stroke

**Modulating actuator**  
Class C  
DIN EN ISO 22153

**Enclosure IP65**  
EN 60529

Operating speed	0.2 - 0.4 mm/s (adjustable)			
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~ ) <sup>2</sup>
Nominal Current ) <sup>4</sup> [A]	0.44	0.88	4.2(AC) / 2.6(DC)	0.32 ) <sup>3</sup>
max. Current ) <sup>4</sup> [A]	0.57	1.15	5.5(AC) / 3.4(DC)	0.42 ) <sup>3</sup>
Power Consumption ) <sup>5</sup> [W]	81	81	76(AC) / 63(DC)	85 ) <sup>3</sup>

**PSL320  
AMS13**

Operating speed	0.2 - 0.4 mm/s (adjustable)			
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~ ) <sup>2</sup>
Nominal Current ) <sup>4</sup> [A]	0.48	0.95	4.6(AC) / 2.9(DC)	0.35 ) <sup>3</sup>
max. Current ) <sup>4</sup> [A]	0.62	1.24	6(AC) / 3.7(DC)	0.42 ) <sup>3</sup>
Power Consumption ) <sup>5</sup> [W]	88	88	82(AC) / 69(DC)	91 ) <sup>3</sup>

**PSL325  
AMS13**

Standard	Description
Ambient temperature [°C]	-20 to +60 °C
Motor protection	Electronic motor current monitoring with safety cut-off
Overvoltage category	II
Break away force	Adjustable up to +50% nominal force
Duty cycle IEC 60034-1,8	S2 30 min S4 50% ED @ 25°C
Set value and feedback	0 (4)..20 mA or 0 (2)..10 V selectable, split range operation
Binary control	24 V - 230 V for ON/OFF control (min. duration of pulse 1s)
Valve positioner function	Integrated positioner, deadband adjustable from 0.5 .. 5%, shut-off minimum
Automatic start-up	Recognizing the end position(s) and autoscaling set and feedback values
Internal fault monitoring	Torque, set value, temperature, power supply, positioning deviation etc., adjustable
Fault indication relay FIR	Potential-free opening contact provides a freely definable collective fault signal
Diagnostics function	Stores cumulated operation data (motor and total running time, number of motor starts) and data sets of current values (set value, feedback value, torque, temperature and error messages)
Communication interface	Connecting to a USB port and a software, allows data reading and parametrisation
Cable glands	3 pcs. M20 x 1,5

**Standard equipment**

)<sup>1</sup> = permissible average force over the entire travel is 50% of the max. thrust

)<sup>2</sup> = max. input voltage range

)<sup>3</sup> = at 400 V 3 ~ and 50 Hz

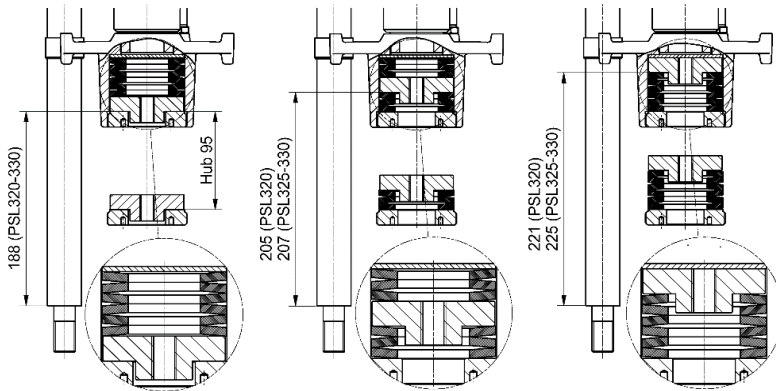
)<sup>4</sup> = data may vary depending on accessories

)<sup>5</sup> = at max. force, data may vary depending on accessories

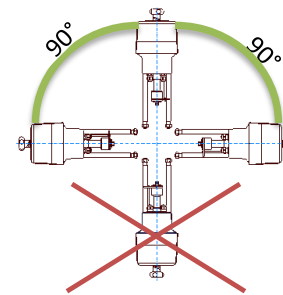
Electrical connection plan

1-Phasen Wechselspannung / DC 1-Phase AC / DC																						3-Phasen 3-Phase AC							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	L1	L2	L3	PE			
↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕	↕			
20V + / - 10V	GND	GND	+10V - 20V mA	+10V - 10V	GND	max. Last / max. Load 100 mA bei / at 24 VDC	24 V AC/DC - 230 VAC	L1-ALUF/OPEN	N/-	L1-ZU/CLOSE	L2-ALUF/OPEN	L3-ZU/CLOSE	N1-24V AC/DC - 230VAC (Option)	21 - 40 VDC / 100 mA	+10V - 20V mA	+10V - 10V	GND	Zu / Closed	Auf / Open	Wegschalter potential-free Kontakt	Versorgungsspannung Power supply voltage	PE (Option)	N1- (siehe Typenschild/see tag plate) L1- (siehe Typenschild/see tag plate)	RU-45 TTL	Taster Button	400 VAC	400 VAC	400 VAC	Schutzerde / protective conductor
Sollwert-Eingang Set value input	Aktive Positionsrückmeldung Active position feedback	Störmeldung potentialfrei Monitor relay potential-free	Binäre Ansteuerung Binary input signals	Netz-ausfall-signal Fail safe signal	Ver-sorgung Supply	Istwert Actual value	Zu / Closed Position switch potential-free Kontakt	Auf / Open Position switch potential-free Kontakt	Versorgungsspannung Power supply voltage	Feldbus-Anschluß Fieldbus interface	PC Kommunikation PC communication	Inbetriebnahme Commissioning	Versorgungsspannung Power supply voltage	Feldbus-Anschluß Fieldbus interface	PC Kommunikation PC communication	Inbetriebnahme Commissioning	Versorgungsspannung Power supply voltage	Schaltnetzteil Schaltnetzteil											

Dimensions of the PS standard adaptation



Mounting position



Accessories/Options

Add'l position switches 2WE	Potential-free additional position switches with silver contacts (0.1 A - 10 A switching current)
Add'l position switches gold	Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current)
Integrated process controller	PSIC Enables the autonomous control of a process so that an external controller is not required.
Fail-safe*	PSCP Emergency power supply based on supercapacitors, safety position OPEN, CLOSED or free defined position
Fieldbus interface*	Digital transmission of nominal and actual value per mill or percent, report of monitoring and diagnostic data using Profibus DP (PSPDP) or CANOpen (PSCA) interfaces, additional interfaces available on request
Local control*	PSC.2 Illuminated display to show the actuator status and lockable selector to switch between modes: automatic, manual process ON/OFF, STOP and parameter menu. Control buttons for manual movement, menu operation and adjustment of parameters, display of diagnostic information
Remote local control	Mounting separately from the actuator (incl. 10 m connection cable)
Data cable	PSCS-USB USB data cable enables the communication between the actuator and a PC by using the software PSCS
Fail-safe port*	FSP Signal port to drive to a "safety position", selectable fail-safe position, standard 24 - 230 V
Heating resistor	HR Heating resistor to prevent condensation
Increased enclosure*	IP Increase of enclosure to IP67

\*not retrofittable

For more information and accessories, please visit our website [www.ps-automation.com](http://www.ps-automation.com)!

Subject to changes!