Intelligent Linear Actuator

Positioner integrated

1798 lbf
Max. thrust)[1]

84.7 - 36.2 Secs/In. Stroke Speed

Stroke 1.97 In. opt. 2.56 In.

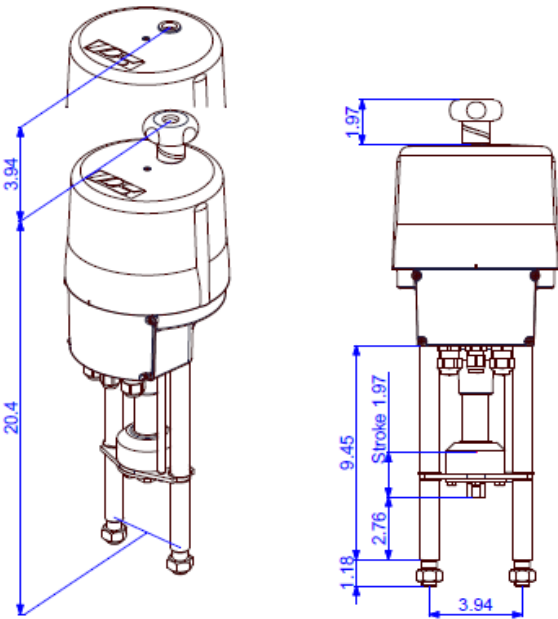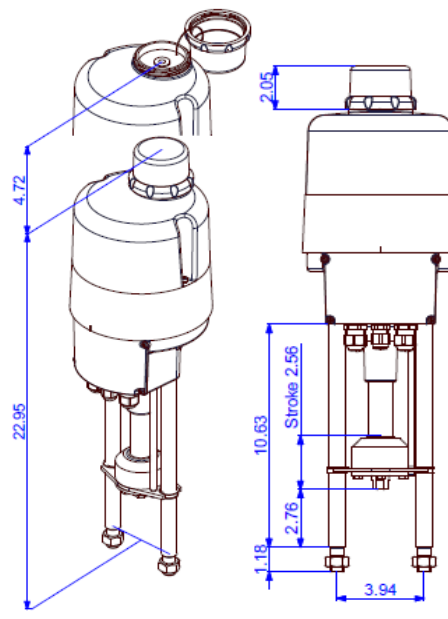**Modulating actuator Class C acc. to DIN EN ISO 22153**

Enclosure IP65
EN 60529

Stroke 1.97 (IP65)

Approx. weight: 22.1 lb without accessories

Stroke 2.56 (IP67)

Approx. weight: 26.5 lb without accessories

PSL208 AMS11

Stroke Speed		84.7 - 36.2 Secs/In. (adjustable)			
Power supply	[V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360…575 VAC 3~)[2]
Nominal current)[4]	[A]	0.22	0.44	2.1(AC) / 1.3(DC)	0.18)[3]
Max. current)[4]	[A]	0.29	0.57	2.7(AC) / 1.7(DC)	0.23)[3]
Power consumption)[5]	[W]	38	38	35(AC) / 32(DC)	47)[3]

Standard		Description
Ambient temperature	[°F]	-4°F to +140°F
Motor protection		Electronic motor current monitoring with safety cut-off
Overvoltage category		II
Break away force		Adjustable up to + 50% nominal force
Duty cycle as per IEC 60034-1,8		S2 30 min S4 50% ED @ 77°F
Control signal 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, deadband adjustable from 0.5 .. 5%, shut-off MIN
Automatic start-up		Recognizing the end position(s) and autoscaling set and feedback values
Internal fault monitoring		Thrust, control signal, temperature, power supply
Fault indication relay FIR		Standard, potential-free opening contact provides a freely definable (programmable) collective fault signal and doubles for indication for when optional Local Controls is NOT in remote mode
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
Conduit entries		2 pcs. M20 x 1,5 and 1 pcs. M16 x 1,5

Standard equipment

)[1] = permissible average force over the entire travel is 50% of the max. thrust

)[2] = max. input voltage range

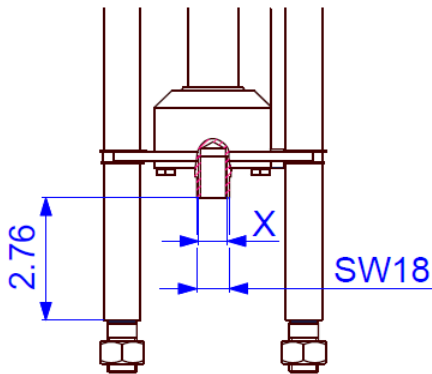)[3] = at 400 V 3~ and 50 Hz

)[4] = data may vary depending on accessories

)[5] = at max. thrust, data may vary depending on accessories

Wiring Termination

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	⏚		RJ-45 TTL	Taster Button	L1	L2	L3	PE
↑	↑	↑	↓	↓	↓	↕	↕	↑	↑	↑	↑	↑	↓	↑	↑	↑	↕	↕	↕	↕	↑	↑					↑	↑	↑	

Set value input (Sollwert-Eingang): +0(2)-10 V / +0(4)-20 mA / GND
Active position feedback (Aktive Positions-rückmeldung): +0(2)-10 V / +0(4)-20 mA / GND
Monitor relay potential-free (Störmeldung potentialfrei): max. Last / max. Load 24 VDC 100 mA bei / at
Binary input signals (Binäre Ansteuerung): L+ AUF/OPEN / N- / L+ ZU/CLOSE / L+(24V AC/DC -230VAC) / N-(24V AC/DC -230VAC) 24 V AC/DC - 230 VAC
Fail safe signal (Netzausfall-signal): (Option)
Supply (Versorgung): 21-40 VDC / 100 mA
Actual value (Istwert): +0(2)-10 V / +0(4)-20 mA / GND
Position switch potential-free contact (Wegschalter potentialfreier Kontakt): Zu/Closed (Option) / Auf/Open (Option)
Power supply voltage (Versorgungs-spannung): L+ (siehe Typenschild/see tag plate) / N- (siehe Typenschild/see tag plate) / PE
Fieldbus interface (Feldbus-Anschluß): (Option)
PC communication (PC Kommunikation)
Commissioning (Inbetriebnahme)
Power supply voltage (Versorgungs-spannung): 400 VAC / 400 VAC / 400 VAC / Schutzleiter / protective conductor (Schaltnetzteil)

Galvanisch getrennt / Galvanically isolated 1 kV — Process-Sensor

8013770 - S-217_G

Dimensions of the PS Standard Adaptation

2.76   X   SW18

Connection Thread X

M8	Optional
M10	Optional
M12	Optional
M14	Optional
M16	**Standard**

Fine threaded and other sizes on request!

Mounting Position

90° 90°
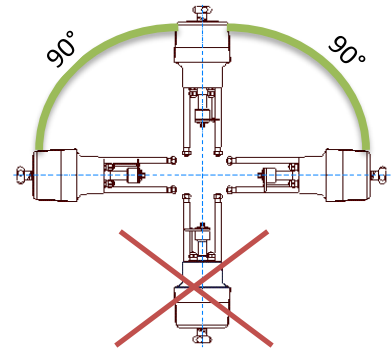
Accessories/Options

Position signal switches, mechanical	2WE	2 potential-free position switches, mechanical, with silverplated changeover contacts, 24V to 230 V AC/DC @ 0.1A- 5A
Position signal switches gold, mechanical	2WE Gold	2 potential-free position switches, mechanical, with gold-plated changeover contacts 5 V to 30 V AC/DC @ 1mA- 100mA; contact resistance 30 mOhm
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 station	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
IP67		Increased enclosure IP67
Heating resistor	HR	Heating resistor to prevent condensation

*not retrofittable

For more information and accessories, please visit our website www.ps-automation.com!

Subject to changes!