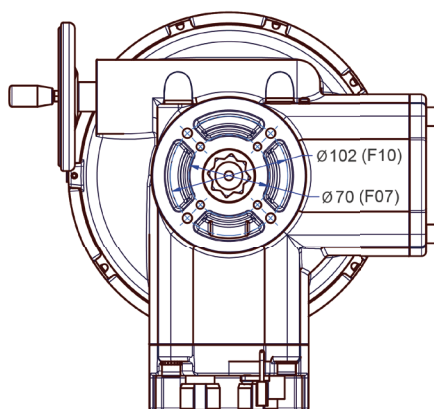
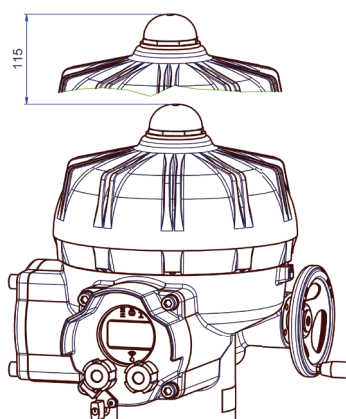


Intelligent Quarter-Turn Actuator



Approx. weight: 28 kg without accessories

**PSQ-S200
AMS22-EX
Positioner
integrated**

**60 - 200 Nm
Switching torque)¹**

**6 s - 20 s
Op. Time/90°**

**Flange
F07 + F10**

Modulating Actuator
Class C
acc. EN ISO 22153

Enclosure IP68
EN 60529

Operating Time/90°		6 - 20 s (adjustable)				PSQ-S200 AMS22-EX
Power Supply	[V]	100-240 VAC 1~	24 VDC	24 VAC	180...500 VAC 3~)²	
Normal Current) ⁴	[A]	0.6-1.1	3.5	4.6	0.42) ³	
Maximum Current) ⁴	[A]	0.8	5	7	0.6) ³	
Power Consumption) ⁵	[W]	90	80	80	85) ³	

Standard	Description	Standard Equipment
Ambient Temperature	[°C] -20 to +60 °C	
Motor Protection	electronic motor current monitoring with safety cut-off	
Overvoltage category	II (@230V), III (@24V)	
Break away torque	adjustable up to +50% nominal torque	
Duty Cycle	IEC 60034-1,8 S2 30 min / S4 50% ED @25°C 600 c/h	
Set value and Feedback	current 0 (4)... 20 mA, voltage 0 (2)... 10 V adjustable, split-range operation possible	
Binary control	24 V - 230 V for ON/OFF control (min. duration of pulse 1s)	
Valve Positioner Function	deadband adjustable from 5 ..100%, shut-off minimum at torque switching	
Automatic Start-up	Recognizing the end position(s) and autoscaling set and feedback values	
Internal Fault Monitoring	Torque, set value, temperature, power supply, deviation of end positions, adjustable actions and signalisation	
Diagnostics Function	Data storage of number of motor starts, motor operating hours and rolling storage of set/actual value, torque, actuator temperature and status (acc. to NE107)	
Communication Interface	for parametrisation and diagnosis PSCS.WIFI oder PSCS.2 with USB data cable	
Cable Glands	4 cable glands: 4 pc. 25x1,5	

)¹ = Permissible average torque over the entire travel is 50% of the max. torque

)² = at nominal torque

)³ = at 400 V 3 phases and 50 Hz

)⁴ = Data can change depending on accessories

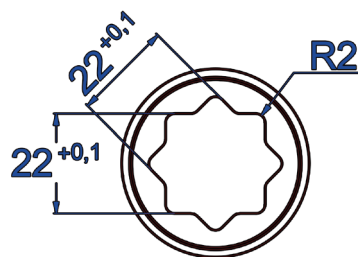
)⁵ = at switching torque, data can change depending on accessories

Certificates		PSQ-S-EX
Device category	II 2G II 2D	
EU Type Examination Certificate	TÜV-A 25ATEX0103 X	
ATEX directive gases	Ex db eb IIC T6/T4 Gb	
ATEX directive dusts	Ex tb IIIC T72°C/T104°C Db	
IECEx CoC	IECEx BKI 25.0010X	
IECEx directive gases	Ex db eb IIC T6/T4 Gb	
IECEx directive dusts	Ex tb IIIC T72°C/T104°C Db	

Electrical Connection Plan

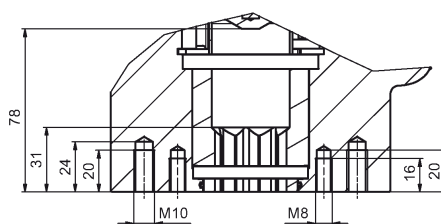
24VDC	24VAC/DC	100-240VAC	200-500VAC
Power supply voltage Spannungsversorgung 24VDC	Power supply voltage Spannungsversorgung 24VAC/DC	Power supply voltage Spannungsversorgung 100-240VAC Anschluss Netzteil connect HV Supply	Power supply voltage Spannungsversorgung 200-500VAC Anschluss Netzteil connect HV Supply
PE gear casing ↓ - GND ↓ +24VDC	PE gear casing ↓ N/- GND ↓ L/+24VAC	PE gear casing ↓ N ↓ L	PE gear casing ↓ L1 ↓ L2
① 1 2	① 19 20	① N L	① L1 L2
Binary input signals Binäre Ansteuerung 24 VAC/DC - 230 VAC	Position Feedback Istwert	Set value A Sollwert A	Set value B Sollwert B
BA ↓ N ↓ DB ↓ BC ↓ N ↓	- GND ↑ + 0(4) - 20 mA ↑ + 0(2) - 10 V ↑	- GND ↓ + 0(4) - 20 mA ↓ + 0(2) - 10 V ↓	- GND ↓ + 0(4) - 20 mA ↓ + 0(2) - 10 V ↓
8 9 10 11 12 13	14 15 16	17 18	19 20
auxiliary voltage output Hilfs-Spg.-Ausgang (Option)			
- GND ↑ + 24V max 42mA ↑			
21 22	23 24	25 26	27 28

Double Square Drive Bush

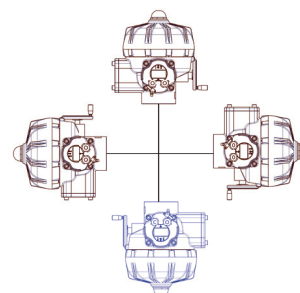


ISO Flange Dimensions

F07 / F10



Mounting Position



On demand

*Please check the drive bushes datasheet for the available sizes!
Other customized drive bushes on request!*

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	2WE Gold	Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current)
	Integrated process	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), CANOpen (PSCA), PROFINET, MODBUS-RTU interfaces, additional interfaces available on request
	Local Control*	PSC.3	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. Also available for mounting separately from the actuator (Modbus Connection, Master/Slave)
	Rotational speed controller, set value B		External regulation of the rotational speed via set value B.
	Relay module		5 potential-free relays with changeover contacts for reporting parameterisable events. Suitable for switching currents 0.1 A to 1 A at a voltage of 24 VAC/DC
	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!