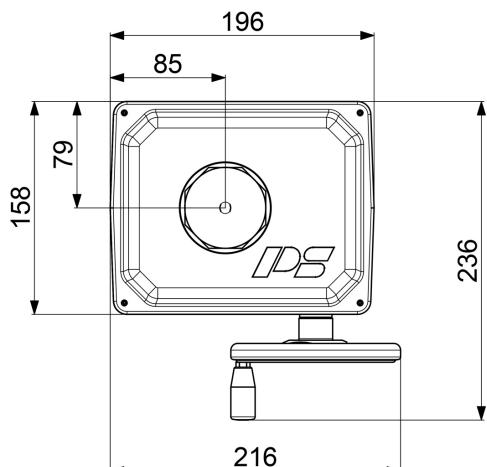
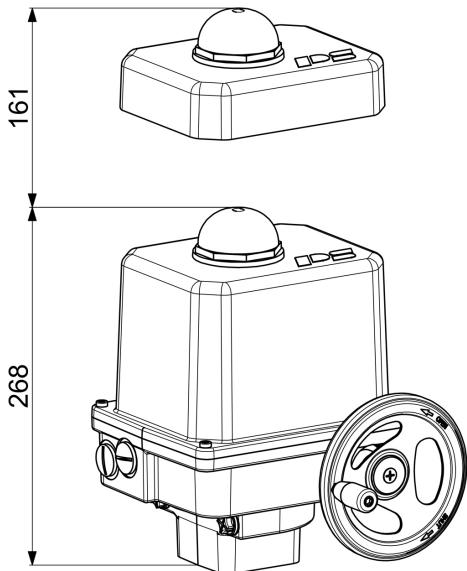


Intelligent Quarter-Turn Actuator

PSQ103 AMS12 -40°C
Low Temperature Version



Approx. weight: 7 kg without accessories

Positioner integrated

90 Nm
Switching torque)¹

9 s - 18 s
Operating Time/90°

Flange F05 + F07
Modulating Actuator

Class C
acc. DIN EN ISO 22153

Enclosure IP67
acc. EN 60529

**PSQ103
AMS12**

Operating Time/90°	9 - 18 s (adjustable)				Standard equipment	
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3 ~) ²		
Normal Current) ⁴ [A]	0.5	1	4.8(AC) / 3.0(DC)	0.36) ³		
Maximum Current) ⁴ [A]	0.65	1.3	6.2(AC) / 3.9(DC)	0.5) ³		
Power Consumption) ⁵ [W]	100	98	95(AC) / 72(DC)	95) ³		
Standard	Description					
Ambient Temperature C°	-40 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 - 20 min, S3/S4 25% dc @ 25°C - 1200 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)					
Positioner	deadband adjustable from 0,5 ... 5% shut-off minimum at torque switching					
Automatic start-up	Recognizing the end position(s) and autoscaling set and feedback values					
Diagnostics function	Torque, set value, temperature, power supply, deviation of end positions, adjustable actions and signalisation					
Fault indication relay FIR	potential-free opening contact provides a freely definable collective fault signal					
Diagnostics function	Stores number of motor starts, motor and total running time. Rolling data storage of set value, -feedback value, torque, temperature and status					
Communication interface	for parametrisation and diagnosis with USB data cable and software PSCS					
Cable glands	2 threaded holes ISO M20 x 1.5 (cable glands are not included)					

)¹ = Permissible average thrust over the entire travel is 90°

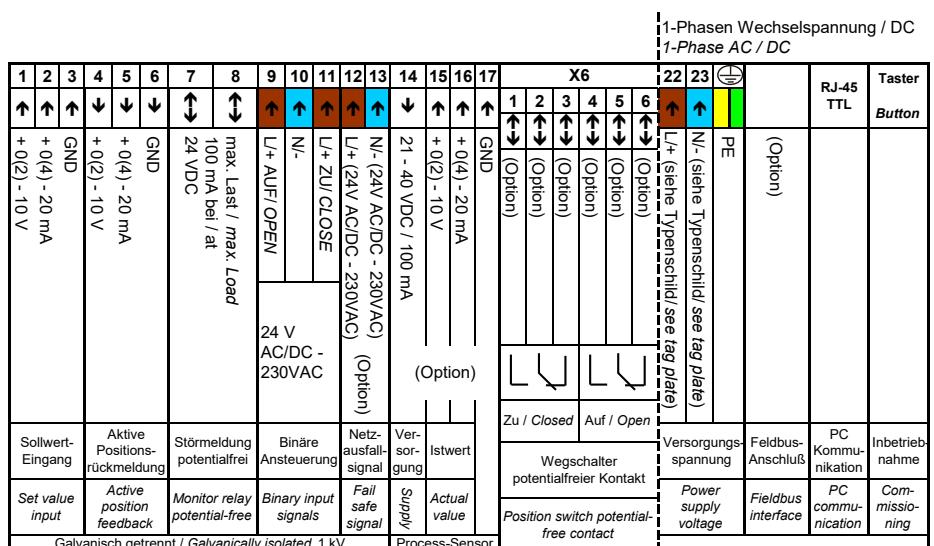
is 50% of the max. thrust

)² = max. input voltage range

)³ = at switching torque, data may vary depending on accessories

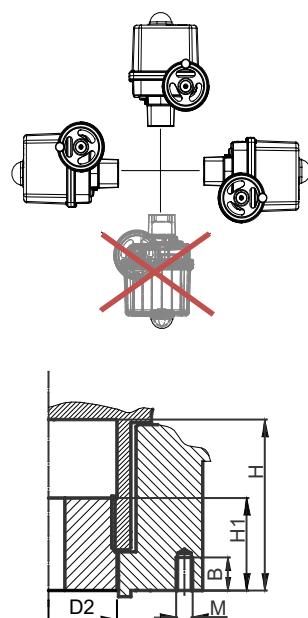
Standard equipment

Electrical Connection Plan

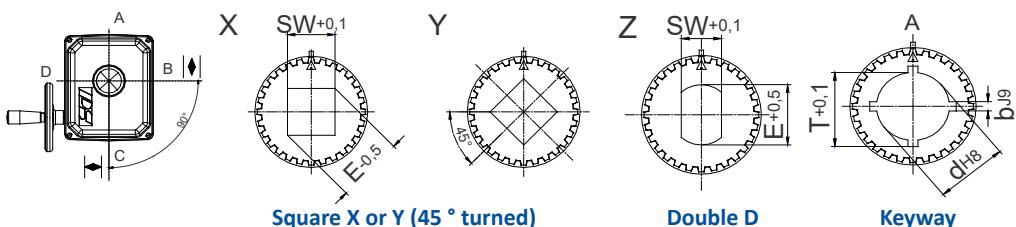


3-Phasen 3-Phase AC			
L1	L2	L3	PE
↑ 400VAC	↑ 400VAC	↑ 400VAC	Schutzleiter / protective conductor
400VAC			

Installation positions



Available Drive Bushes



	F05	F07
D2	38	38
H	44	44
H1	35	35
M	M6	M8
B	12	16

Please check the drive bushes datasheet for the available sizes!

Other customized drive bushes on request!

Accessories/Options	Position Signal Switches	2WE	Potential-free additional position switches with silver contacts (0.1 A - 10 A switching current)
	Position Signal Switches Gold	2WE Gold	Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current)
	Integrated process	PSIC	Binary input voltage of 115-230 VAC for ON/OFF control
	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
	IP68		Increased enclosure IP68) ⁶ available

* not retrofittable

)⁶ = IP68, no ingress of dust and suitable for continuous immersion in water up to 6 m and 96 h

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

Subject to changes!