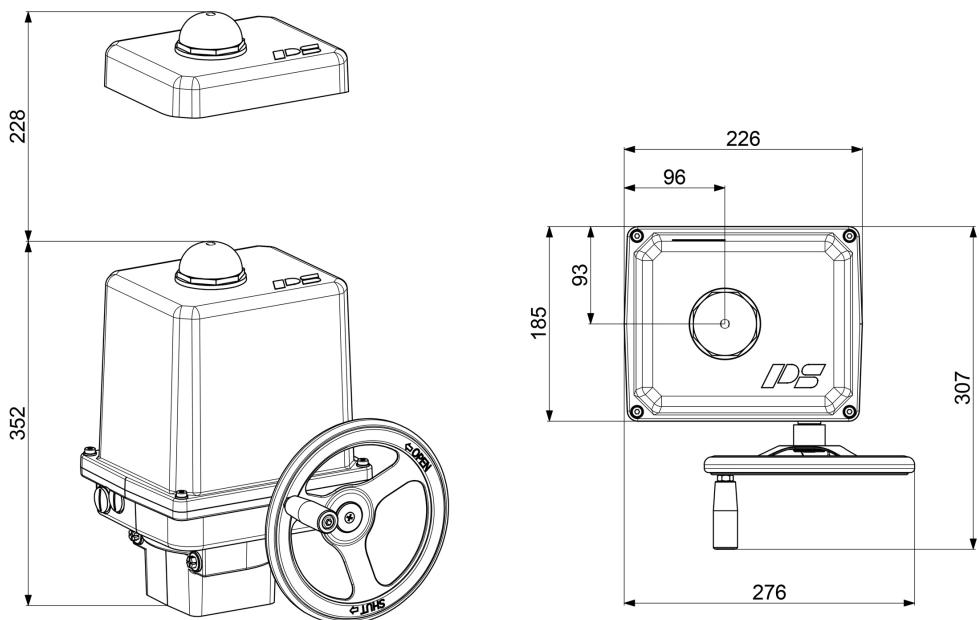


Intelligent Quarter-Turn Actuator



Approx. weight: 13 kg without accessories

Positioner integrated

175 Nm
Switching torque)¹

16 s - 32 s
Operating Time/90°

Flange F05 + F07
Modulating Actuator
Class C
acc. DIN EN ISO 22153

Enclosure IP67
acc. EN 60529

**PSQ203
AMS12**

Operating Time/90°	16 - 32 s (adjustable)			
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3 ~) ²
Normal Current) ⁴ [A]	0.59	1.2	5.6(AC) / 3.5(DC)	0.42) ³
Maximum Current) ⁴ [A]	0.76	1.5	7.3(AC) / 4.6(DC)	0.5) ³
Power Consumption) ⁵ [W]	115	115	108(AC) / 84(DC)	110) 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

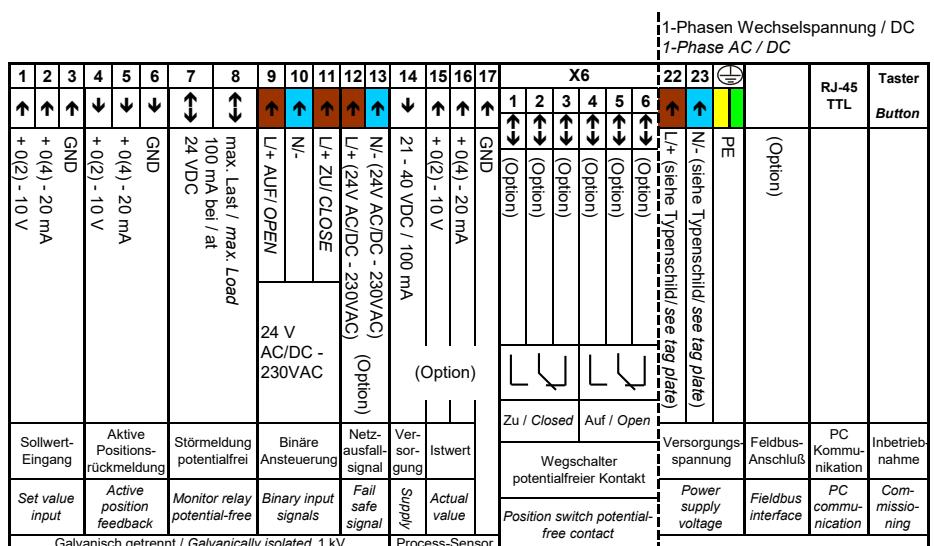
)³ = at 400 V 3 ~ and 50 Hz

)⁴ = data may vary depending on accessories

)⁵ = at switching torque, data may vary depending on accessories

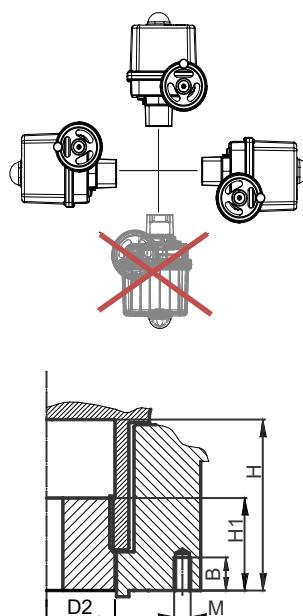
Standard equipment

Electrical Connection Plan

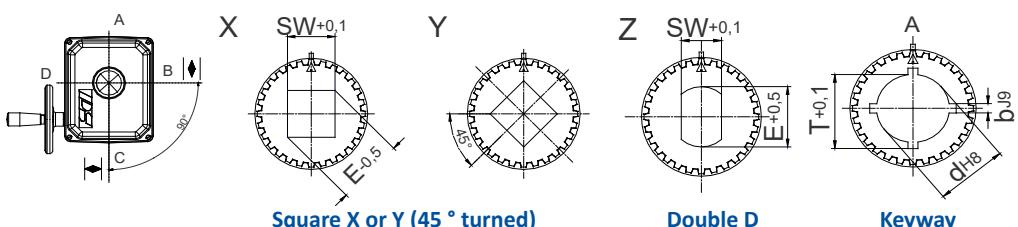


3-Phasen 3-Phase AC			
L1	L2	L3	PE
↑	↑	↑	↑
Schutzleiter / protective conductor			
400VAC			

Mounting Position



Available Drive Bushes



F05	F07
D2	38
H	44
H1	35
M	M6
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
	Heating Resistor	HR	Heating resistor to prevent condensation
	Terminal Box*		Plug and socket in an IP68 box

* 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!