

# Intelligent Quarter-Turn Actuator

**PSQ503  
AMS12**

**Positioner  
integrated**

250 - 500 Nm  
**Switching torque )<sup>1</sup>**

**36 s - 72 s**  
Op. Time/90°

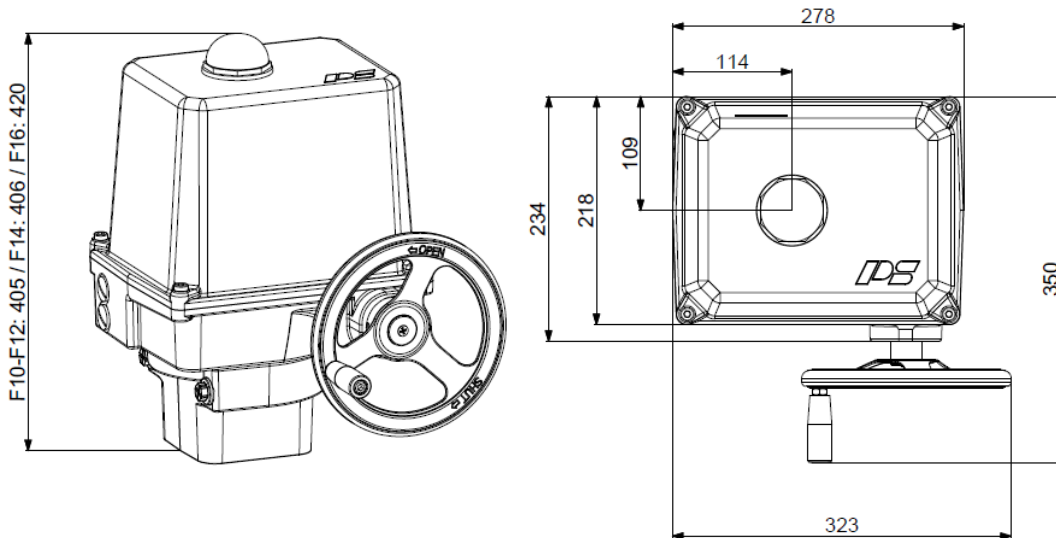
**Flange  
F10/F12/F14/F16**

Modulating Actuator

**Class C**

acc. EN ISO 22153

**Enclosure IP67**  
EN 60529



*Approx. weight: 27 kg without accessories*

Operating Time/90°	36 - 72 s (adjustable)				<b>PSQ503 AMS12</b>
Power Supply [V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...575 VAC 3~ ) <sup>2</sup>	
Normal Current ) <sup>4</sup> [A]	0.64	1.3	6.2(AC) / 3.9(DC)	0.45 ) <sup>3</sup>	
Maximum Current) <sup>4</sup> [A]	0.84	1.7	8.0(AC) / 5.0(DC)	0.59 ) <sup>3</sup>	
Power Consumption ) <sup>5</sup> [W]	126	126	118(AC) / 92(DC)	120 ) <sup>3</sup>	

Standard	Description	<b>Standard Equipment</b>
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	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 0.5 .. 5%, 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	
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)	

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

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

)<sup>5</sup> = at switching torque, data can change depending on accessories

)<sup>2</sup> = at nominal force

)<sup>4</sup> = Data can change depending on accessories

