Intelligent Quarter-Turn Actuator

PSQ1003 AMS13

Positioner integrated

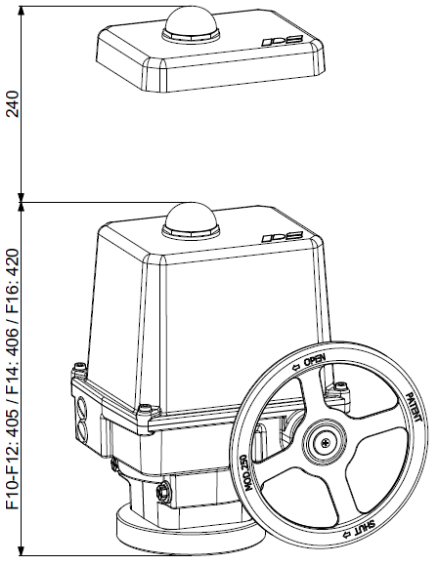
500 - 1000 Nm
Switching torque)[1]

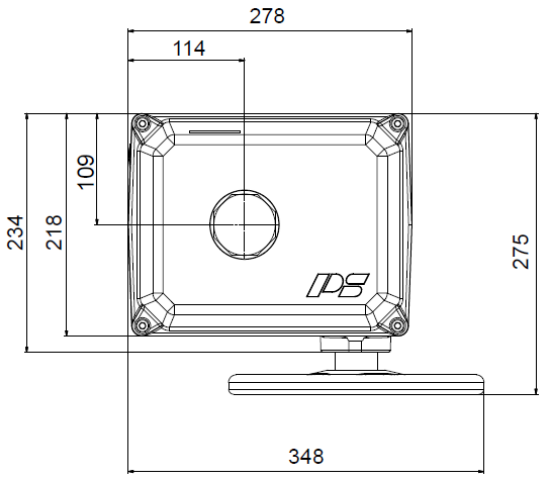
70 s - 140 s
Op. Time/90°

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°		70 - 140 s (adjustable)			
Power Supply	[V]	**230 VAC 1~**	**115 VAC 1~**	**24 VAC/DC**	**360...575 VAC 3~)[2]**
Normal Current)[4]	[A]	0.64	1.3	6.2(AC) / 3.9(DC)	0.45)[3]
Maximum Current)[4]	[A]	0.84	1.7	8.0(AC) / 5.0(DC)	0.59)[3]
Power Consumption)[5]	[W]	126	126	118(AC) / 92(DC)	120)[3]

PSQ1003 AMS13

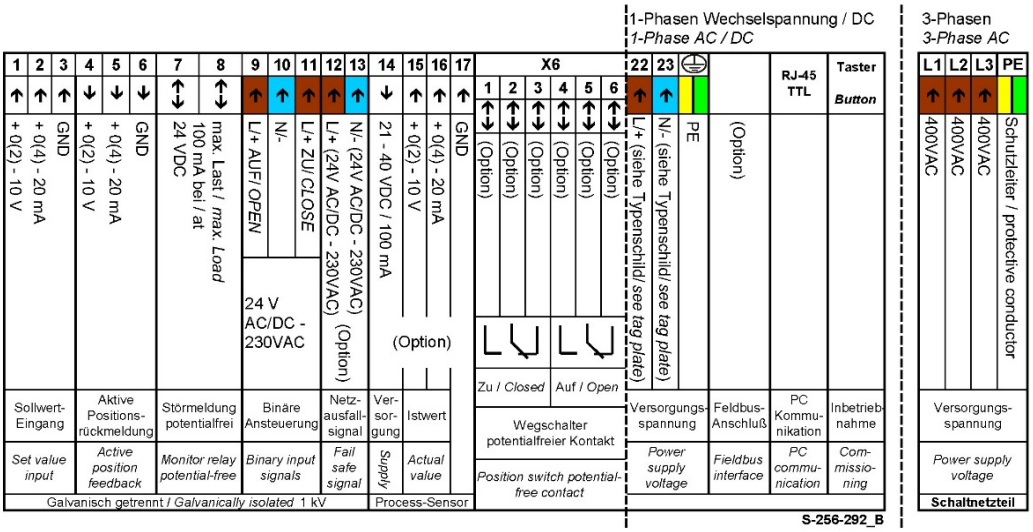
Standard		Description
Ambient Temperature	[°C]	-20 to +60 °C
Motor Protection		electronic motor current monitoring with safety cut-off
Overvoltage category		II
Break away force		adjustable up to +50% nominal force
Duty Cycle	IEC 60034-1,8	S2 30 min S4 50% ED @ 25°C
Set value and Feedback		current 0 (4)... 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)

Standard Equipment

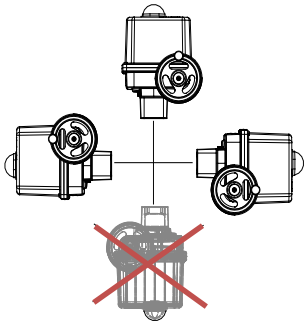
)[1] = Permissible average thrust over the entire travel is 50% of the max. thrust
)[2] = at nominal force
)[3] = at 400 V 3 phases and 50 Hz
)[4] = Data can change depending on accessories
)[5] = at switching torque, data can change depending on accessories

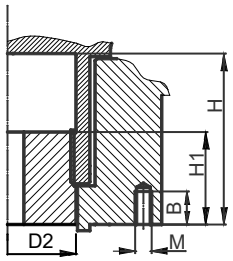
Technical Data

Electrical Connection Plan

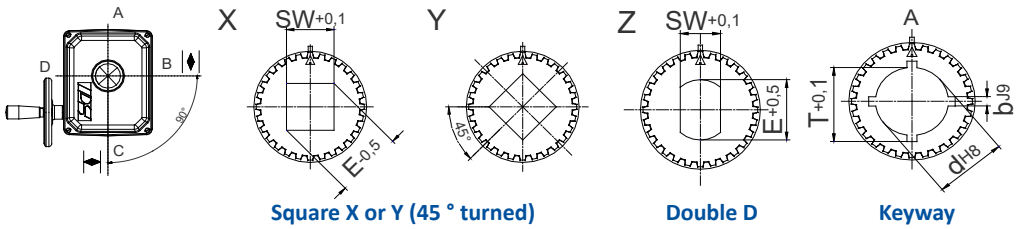


Mounting Position





Available Drive Bushes



Square X or Y (45 ° turned) | Double D | Keyway

	F12	F14
D2	66	66
H	80	80
H1	48	48
M	M12	M16
B	18	24

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) 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] incl. corrosion protection K2 and heating resistor
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!