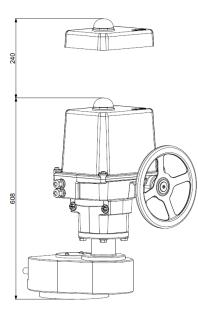
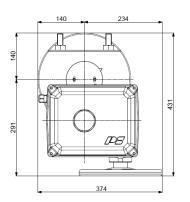
Intelligent Quarter-Turn Actuator





PSQ3003 AMS13

Positioner integrated

1500 - 3000 Nm

Switching torque)¹

280 s - 560 s Op. Time/90°

> Flange F16

Modulating Actuator

Class C

acc. EN ISO 22153 Enclosure IP67

EN 60529

Approx. weight: 54 kg without accessories

Operating Time/90°	•	280 - 560 s (adjustable)									
Power Supply	[V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360575 VAC 3~) ²	S1 S					
Normal Current) ⁴	[A]	0,5	1,1	5,2(AC) / 3,3(DC)	0,23) ³	άĒ					
Maximum Current) ⁴	[A]	0,7	1,4	6,8(AC) / 4,2(DC)	0,30) ³	A N					
Power Consumption) ⁵	[W]	106	106	100(AC) / 78(DC)	105) ³	Δ]					

Standard	Description
Ambient Temperature [°C]	-20 to +60 °C
Motor Protection	electronic motor current monitoring with safety cut-off
Overvoltage category	П
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)

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

)³ = at 400 V 3 phases and 50 Hz

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

)² = at nominal force)⁴ = Data can change depending on accessories

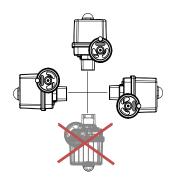
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Technical Data

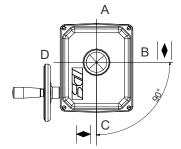
Electrical Connection Plan

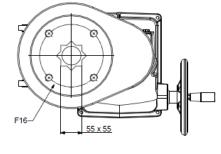
																											Wechsel: C / DC	spannur	ng / DC		has has	sen se A	C
1	2	3	4	5	6	;	7	8	9	10	11	12 1	13	14	15	16	17)	(6			22	23	\square		RJ-45	Taster	L1	L2	L3	PE
↑	↑	1	1	• •	1		\$	\$	1	↑	1	1	↑	¥	↑	↑	↑	1 ↑	2 1	3 ↑	4 1	5 个	6 ↑	1	↑			TTL	Button	Ŧ	↑	↑	
+ 0(2) - 10 V	+ 0(4) - 20 mA		+ 0(2) - 10 V	- 20	GND	25	24 VDC	st/r		V c/DC		(241	- 124V AC/DC -	0 VDC / 100 mA		+ 0(4) - 20 mA	GND	→ (Option)	◆ (Option)	◆ (Option) ↓		♦ (Option)	Ļ	L/+ (siehe Typenschild/ see tag plate)	N/- (siehe Typenschild/ see tag plate)	PE	(Option)			400VAC	400VAC	400VAC	Schutzleiter / protective conductor
		ert- ang		Akti ositi kme	ons-	1.	Störme potent			Binär steue		Netz ausfa signa	all- s	/er- sor- ung	Istv	Istwert			Zu / Closed Auf / Open Wegschalter potentialfreier Kontakt					Versorgungs- spannung			Feldbus- Anschluß	PC Kommu- nikation	Inbetrieb nahme			rgung nnung	
	t va inpe	alue ut		Activ posit eedb	ion		Nonito otenti			ary ii signa		Fail safe signa	/ e : a/ ·	Supply	Acti val			<u> </u>	sitior		tch p	oten		į,	Powe supp voltag	ly	Fieldbus interface	PC commu- nication	Com- missio- ning	Ρ		supp age	oly
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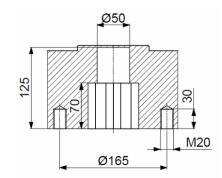
Mounting Position



Mechanical Connection







	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)
JS	Integrated process	PSIC	Enables the autonomous control of a process so that an external controller is not required
tiol	Fail-Safe*	PSCP	Emergency power supply based on supercapacitors, safety position OPEN, CLOSED or free defined position
s/Op	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
Accessories/Options	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
es	Remote Local Control		mounting separately from the actuator (incl. 10 m connection cable)
Acc	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
	Heating Resistor	HR	Heating resistor to prevent condensation
	Terminal Box*		Plug and socket in an IP68 box

*not retrofittable

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

Subject to changes!

