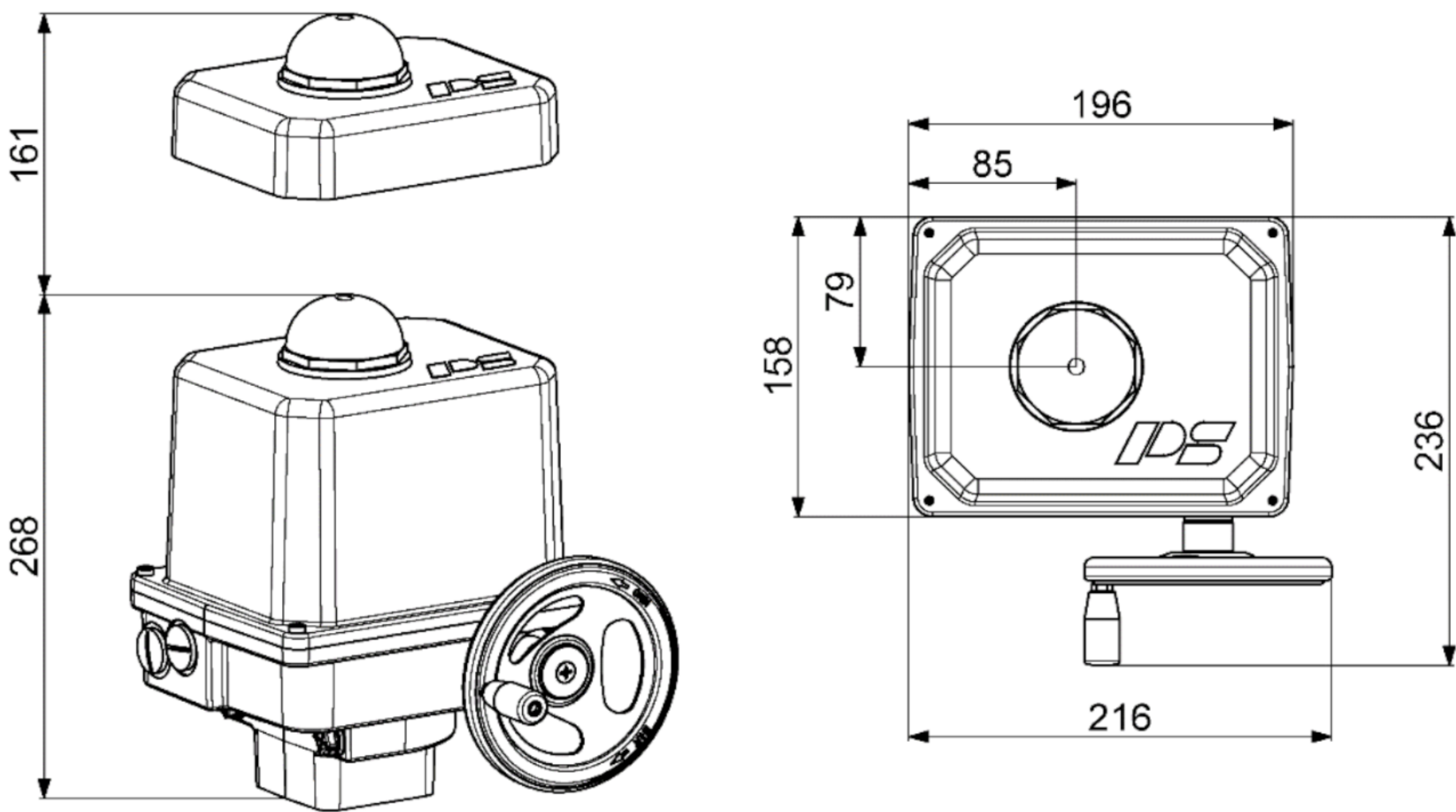


Intelligent Quarter-Turn Actuator



PSQ103 AMS1x
Positioner integrated
65 - 130 Nm Switching torque Modulating torque max. 65 Nm) ¹
9 s - 72 s Operating Time/90°
Flange F05 + F07
Modulating Actuator Class C acc. EN 15714-2
Enclosure IP67 acc. to EN 60529

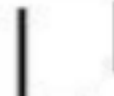
Approx. weight: 7 kg without accessories

Operating Time/90°		36 - 72 s (adjustable)				PSQ103 AMS11
Power Supply	[V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...460 VAC 3~	
Nominal Current	[A]	0.24	0.48	2.3(AC) / 1.4(DC)	0.2) ³	
Maximum Current	[A]	0.31	0.62	3.0(AC) / 1.9(DC)	0.2) ³	
Power Consumption) ²	[W]	41	41	38(AC) / 34(DC)	50) ³	
Operating Time/90°		9 - 18 s (adjustable)				PSQ103 AMS12
Power Supply	[V]	230 VAC 1~	115 VAC 1~	24 VAC/DC	360...460 VAC 3~	
Nominal Current	[A]	0.5	1	4.8(AC) /3.0(DC)	0.36) ³	
max. Current	[A]	0.65	1.3	6.2(AC) / 3.9(DC)	0.5) ³	
Power Consumption) ²	[W]	100	98	95(AC) / 72(DC)	95) ³	
Standard		Description				Standard Equipment
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)				

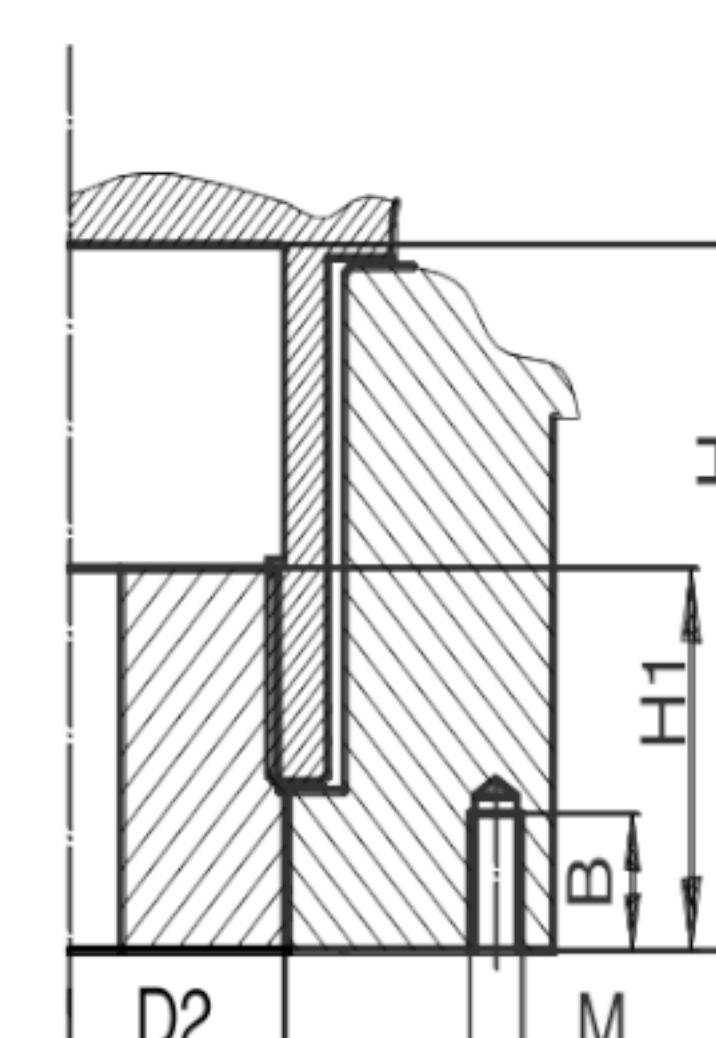
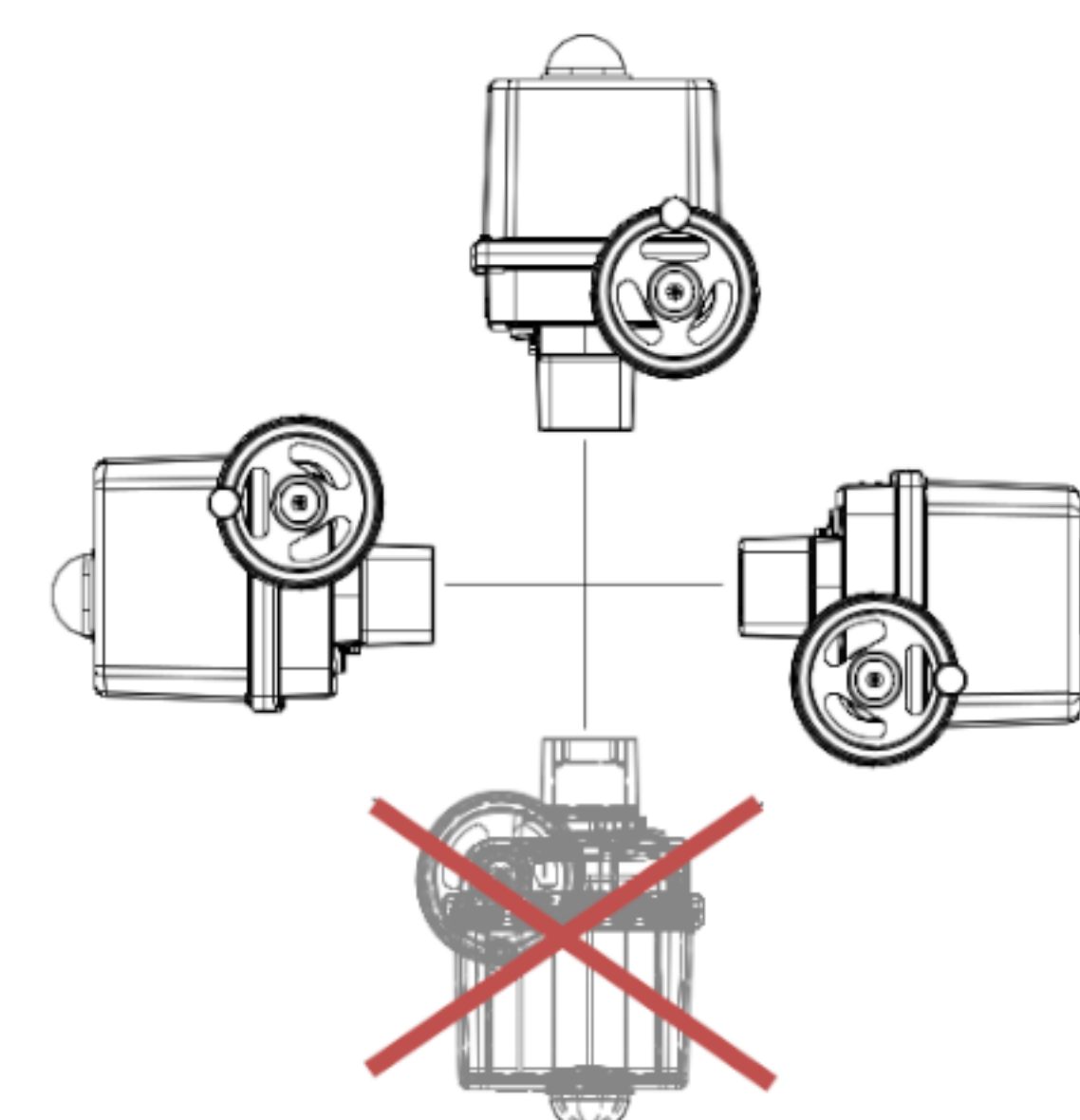
)¹ = Permissible average torque for a travel of 90°
)² = at nominal force
)³ = at 400 V 3 phases and 50 Hz
)⁴ = Data can change depending on accessories
)⁵ = at switching torque, data can change depending on accessories

Technical Data

Electrical Wiring Diagram

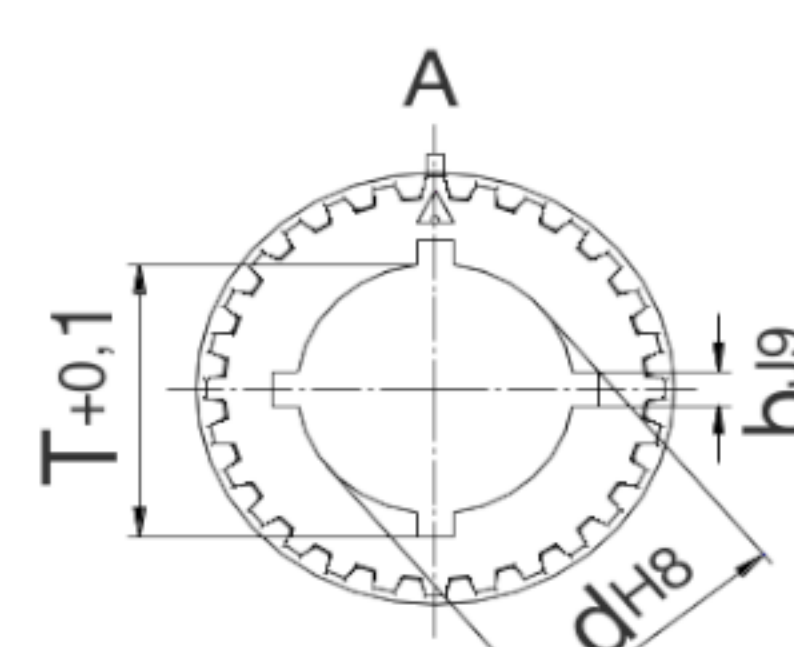
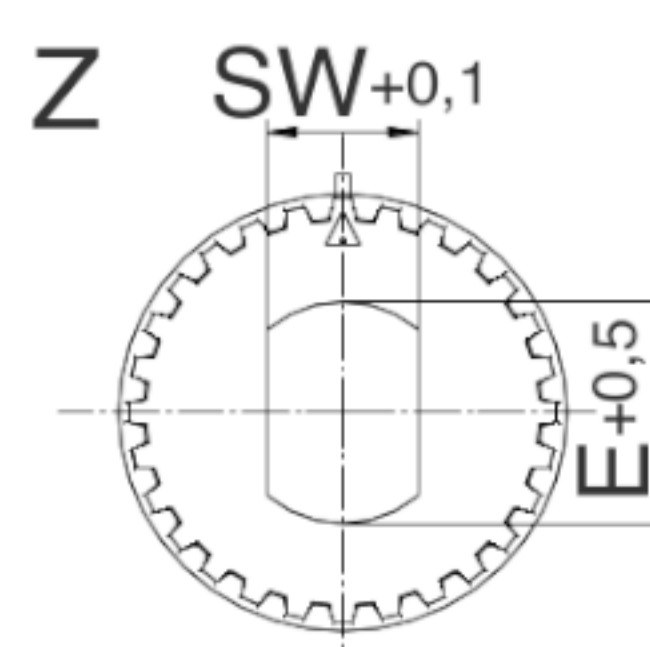
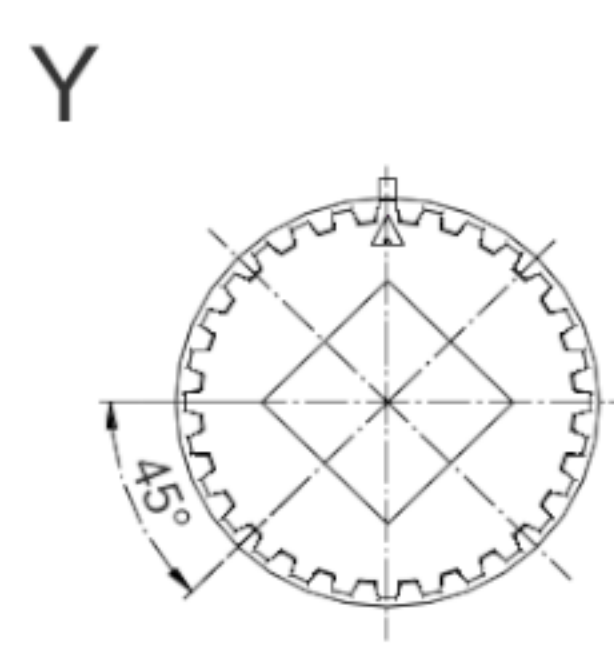
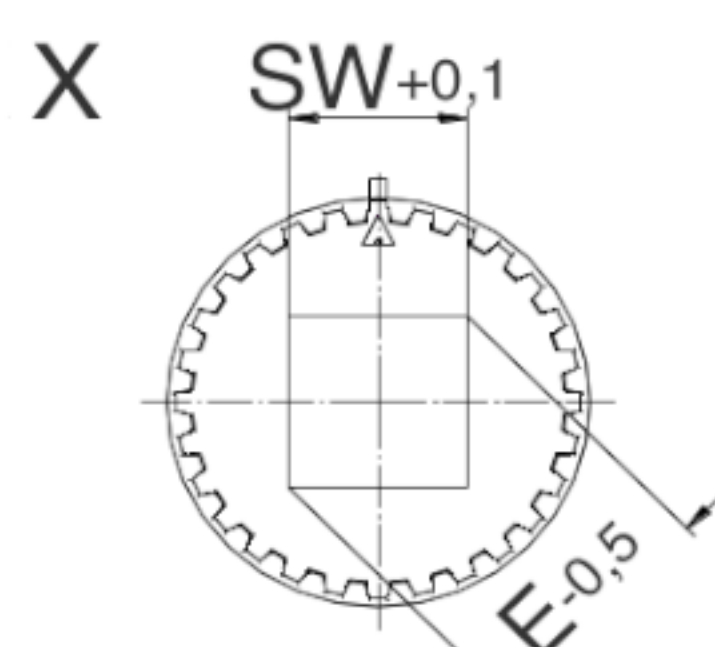
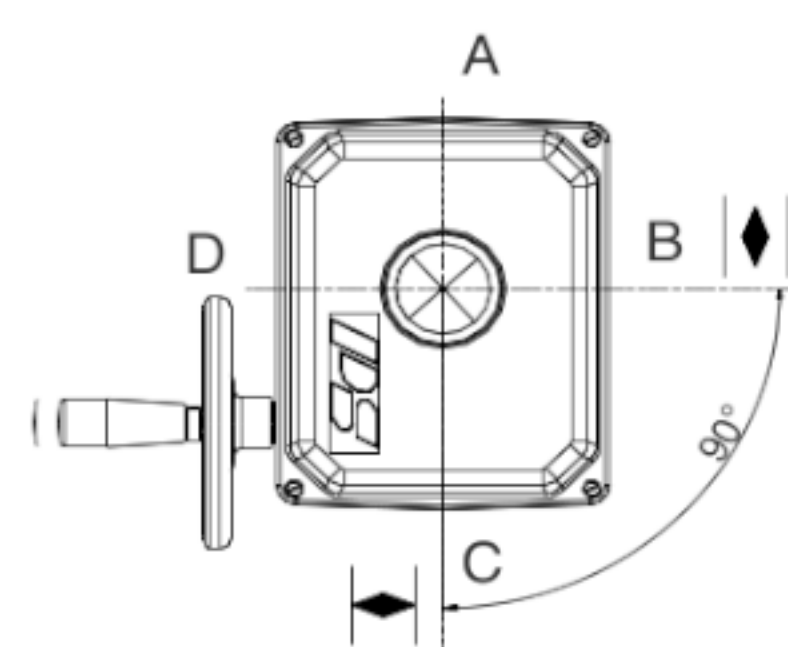
1-Phasen Wechselspannung / DC 1-Phase AC / DC																	3-Phasen 3-Phase AC																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	X6						22	23			RJ-45 TTL	Taster Button	L1	L2	L3	PE			
↑	↑	↑	↓	↑	↓	↕	↕	↑	↑	↑	↑	↑	↓	↑	↑	↑	1	2	3	4	5	6	↑	↑					↑	↑	↑				
+ 0(2) - 10 V		GND		+ 0(4) - 20 mA		GND		max. Last / max. Load 100 mA bei / at 24 VDC		L+ / AUF / OPEN		N/- (24V AC/DC - 230VAC)		L+ / (24V AC/DC - 230VAC)		L+ / ZU / CLOSE		N/- (24V AC/DC - 230VAC) (Option)		21 - 40 VDC / 100 mA		+ 0(4) - 20 mA		+ 0(2) - 10 V								Schutzleiter / protective conductor			
										24 V AC/DC - 230VAC																						Versorgungsspannung			
Sollwert-Eingang		Aktive Positions-rückmeldung		Störmeldung potentialfrei		Binäre Ansteuerung		Netz-ausfall-signal		Ver-sorgung		Istwert						Zu / Closed		Auf / Open						Feldbus-Anschluß		PC Kommunikation		Inbetriebnahme		Versorgungsspannung			
Set value input		Active position feedback		Monitor relay potential-free		Binary input signals		Fail safe signal		Supply		Actual value						Wegschalter potentialfreier Kontakt								Power supply voltage		Fieldbus interface		PC communication		Commissioning		Power supply voltage	
Galvanisch getrennt / Galvanically isolated 1 kV													Process-Sensor										Versorgungs-spannung		Power supply voltage		Schaltnetzteil								

Mounting Position



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

Available Drive Bushes



Square X or Y (45 ° turned)

Double D

Keyway

*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	2WE Gold	Potential-free additional position switches with gold contacts (0.1 mA - 100 mA switching current)
Integrated process controller	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
Corrosion Protection	K2	Increased corrosion protection incl. heating resistor
IP68		Increased enclosure IP68
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!