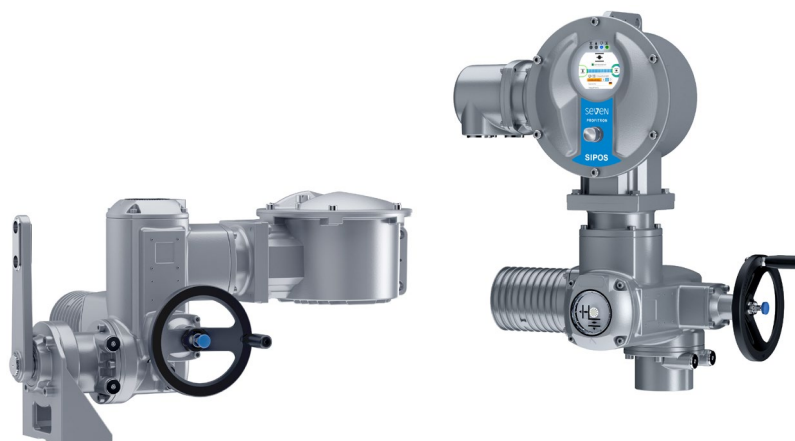


small Electric part-turn actuators 2SQ7

Ordering data



Standard design

- protection class IP68 acc. to DIN EN 60529
- corrosivity category C5 acc. to DIN EN ISO 22153
- electronic motor protection, automatic phase sequence correction
- start-up current lower than rated current
- line voltage tolerance -10 % / +15 % in the chosen voltage range, frequency range from 40 to 70 Hz (full torque for voltage fluctuations between -30 % and +15 %)
- permissible ambient temperature: -20°C to +70°C (-4°F to +158°F), (lower / higher temperatures on request)
- electric connection: round plug with screw connection, dust and water-protected when plug withdrawn (double sealed)
- separate mounting of the electronics unit possible
- hand wheel for emergency operation (*disconnected during motor operation!*)
- valve protection through integrated frequency converter: soft start and speed reduction in the end positions
- positioning time adjustable:
 - ECOTRON: in 7 steps (step-up factor 1.4)
 - PROFITRON: continuous setting (parameterizable on the display between 12.5% - 100% sec_{max}.)
- positioning times independently adjustable for OPEN, CLOSE, Emergency OPEN and Emergency CLOSE (*PROFITRON*)
- tripping torques continuously adjustable from 50 % to 100 % of max. output torque T_{C max.} for OPEN and CLOSE
- travel dependent cut-off continuously adjustable
- mechanical limitation of travel adjustable
- local control with hermetically sealed control knob „Drive Controller“ (optionally lockable)
- operator guidance via display
- external 24 V DC supply for electronics unit possible
- external 24 V DC or 48 V DC supply of the galvanic isolated binary inputs and outputs possible
- galvanic isolation of the analog inputs and outputs (*PROFITRON*)
- analog actual position value 0/4 – 20mA
- communication with COM-SIPOS via USB and Bluetooth possible (*PROFITRON*)
- real-time event logging (*PROFITRON*)

Order-no.

1 2 3 4 5 6 7 - 8 9 10 11 12 - 13 14 15 16 add.version
2SQ7 **2** - **1** - **4**

Duty classification acc. DIN EN ISO 22153	tripping torque adjustable [Nm] [(lbf ft)] >> the minimum value is set as standard (50% T _{C max.}) << other torque settings - see additional features „Y01“	max. torque (running torque at modulating duty)	weight ≈ [kg] [(lb)]		list price
ON-OFF Class A	75 – 150 (55.3 – 110)		27 (59.5)	0	
inching/positioning Class B	75 – 150 (55.3 – 110)	75 (55.3)	27 (59.5)	3	
modulation Class C	75 – 150 (55.3 – 110)	75 (55.3)	27 (59.5)	5	

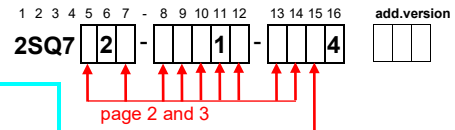
DIN EN ISO 5211	flange size / base + leverarm	add. weight [kg] [(lb)]		add. cost
F05 / F07			1	
F10			2	
base + leverarm		6 (13.2)	8	

coupling 1) (splined bush) DIN EN ISO 5211	valve connection (coupling or leverarm) direct mounting (1 mm = 0.0394 in) for the torque ranges [Nm] with flange F05 / F07				add. cost
unbored bore	75 – 150			0	
square 2) bore [mm]	22	with 1 keyway acc. to DIN 6885 Part 1		1	
bore with 3) two-flats [mm]	17			2	
special 4) bore [mm]	17			3	
bore [mm]	25,4	maximum diameter with 1 keyway acc. to DIN 6885 Part 1		9	H 1 Y
leverarm lengths	base + leverarm [mm] (1 mm = 0.0394 in)	hole cone 1:10	suitable 5) damper rod		
150 / 200 [mm]	75 – 150	16 H8	2SX7304-0KG00	8	

- 1) coupling with thread and grub screw
- 2) another keyway width: code number 2 replace by **9** and add. version **H4Y**
- 3) another keyway width: code number 3 replace by **9** and add. version **H5Y**
- 4) the special bore must be stated, e.g. **ø 14 with featherkey A5x5 DIN 6885**
- 5) consisting of damper leverarm with ball joints at right and left - **please order separately**

 = without add. cost

Ordering data



use with	software-function		add. cost
ECOTRON	standard version		
	standard version positioner ⁷⁾	A	
PROFITRON	process controller ⁷⁾	B	
	travel dependent output speed adjustment	C	
	positioner + travel dependent output speed adjustment ⁷⁾	D	
	external analog output speed setpoint	E	
	positioner + external analog output speed setpoint ⁷⁾	F	
	positioner with split-range functionality ⁷⁾	G	
	travel dependent freely adjustable positioning times	H	
	positioner + travel dependent freely adjustable positioning times ⁷⁾	J	
	process controller + travel dependent freely adjustable positioning times ⁷⁾	K	
		L	

⁷⁾ only 2SQ73 and 2SQ75

Additional features (Order-no. with „-Z“)

adjustment/parameterization according to customer request			add. cost
tripping torque set to	→ state: ... in direction OPEN and... Nm in direction CLOSE >> set to 50 % of T _{C max.} as standard <<	Y 0 1	
positioning time set to	→ state: ... sec/90° ECOTRON (7-step, step-up factor 1.4) >> step 4 is set as standard << PROFITRON (continuous adjustable) >> set to 35% of sec _{max.} as standard <<	Y 0 9	
further adjustment/parameterization		Y 1 1	
customer specific software-programming		Y 9 9	
specific supply of the inputs and outputs (only PROFITRON)			
OPEN and CLOSE binary inputs internally supplied with 120 V AC >> Relay board has only 5 instead of 8 outputs <<		C 6 3	
analog position value externally supplied with 24V DC (passive analog output)		C 6 7	
fieldbus			
PROFINET connection via RJ45 plug		C 1 3	
fieldbus connection (PROFIBUS/MODBUS) via FO in line/star topology, 1 channel		C 1 7	
PROFIBUS connection via FO in loop topology, 1 channel		C 1 8	
separate mounting			
installation kit including mounting bracket and tubular steel stirrup (lead ends are prepared for plug in) >> other versions with cable lengths up to 150 m (492 ft) on request <<			
connecting cable with connection plug hoods for electronics unit and gear unit are completely assembled → state: length of cable R7.		S 4 1	
connecting cable shielded 3 m (9.8 ft)		R 7 0	
connecting cable shielded 5 m (16.4 ft)		R 7 1	
connecting cable shielded 10 m (32.8 ft)		R 7 2	
customer-plate and product documentation			
(standard product documentation: operating instructions German and rating-plate German/English)			
customer-plate	with freely definable text	B 0 0	
other language	operating instructions monolingual, rating-plate foreign-language/English: AR (B65), CS (B55), DA (B62), EL (B60), EN (B49), ES (B51), FI (B54), FR (B50), IT (B52), NL (B67), NO (B66), PL (B57), PT (B64), RO (B59), RU (B53), SK (B61), SV (B56), TR (B63), ZH (B58)	B . .	
other paint			
(standard version: 80 µm thick-film coating in silver-gray (similar to RAL 7037) according to DIN EN ISO 22153 (DIN EN ISO 12944-2), corrosivity category C5)			
very high corrosion protection, corrosivity category C5 with long protection time		L 3 8	
top coat of paint for color other than RAL 7037 → also state: color RAL		Y 3 5	

>> other additional features on request! <<

= without add. cost