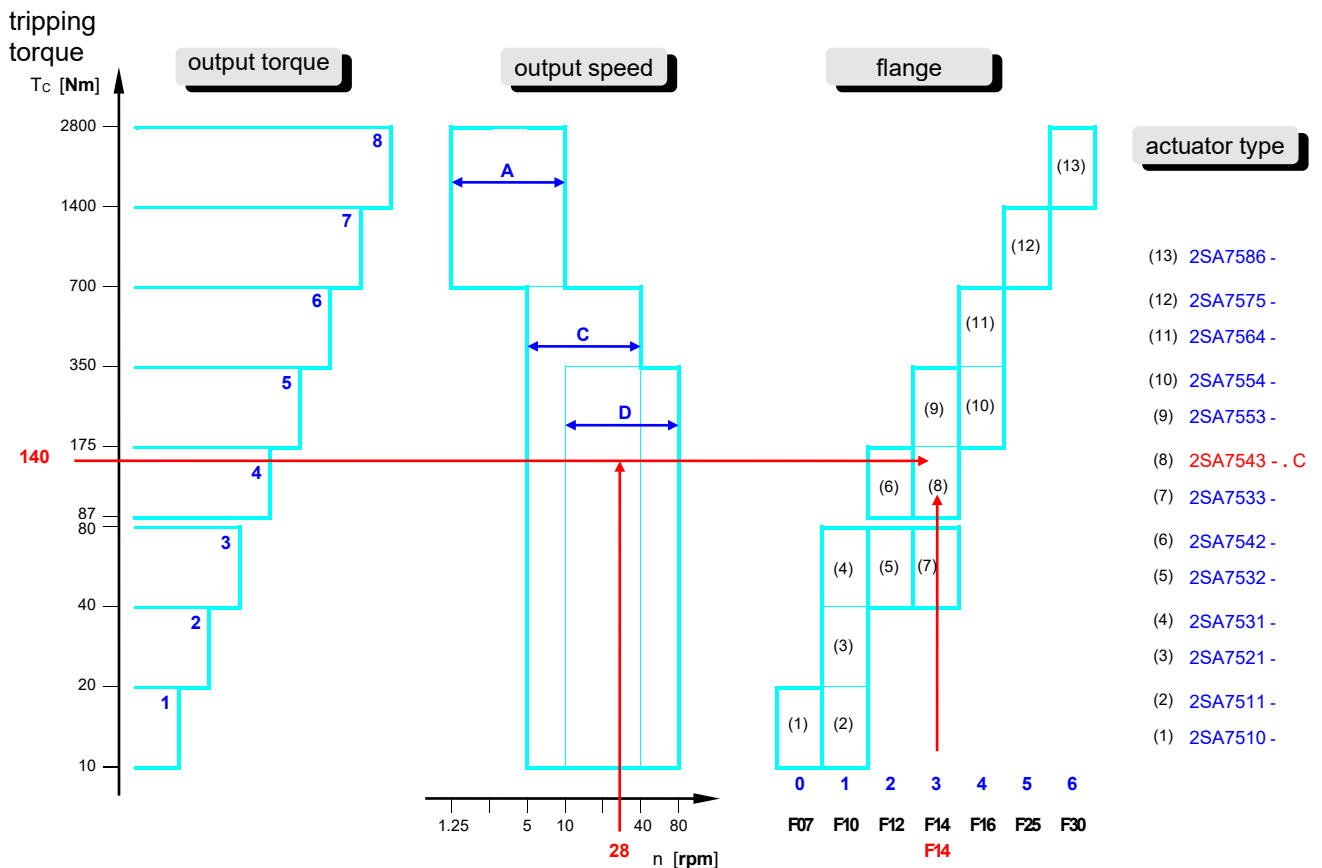
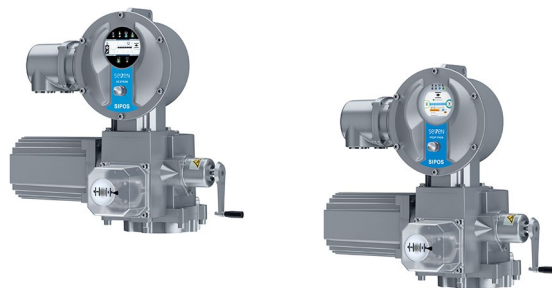


Electric rotary actuators for modulating duty

Ordering data



Ordering data

Standard design

- duty classification: modulating duty, class C according to DIN EN ISO 22153
- 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- electric connection: round plug with screw connection, dust and water-protected when plug withdrawn (double sealed)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 crank/wheel for emergency operation (*disconnected during motor operation!*)
- valve protection through integrated frequency converter: soft start and speed reduction in the end positions
- adjustable output speed within the selected speed range:
 - ECOTRON: in 7 steps (step-up factor 1.4)
 - PROFITRON: continuous setting (parameterizable on the display in 2.5% increments between 12.5 - 100% n_{max})
- output speeds independently adjustable for OPEN, CLOSE, Emergency OPEN and Emergency CLOSE (*PROFITRON*)
- tripping torques adjustable from 50% to 100% of max. output torque $T_{C max.}$ for OPEN and CLOSE in steps of 10%
- travel dependent cut-off continuously adjustable
- 3 reference torque curves of the valve can be stored (*PROFITRON*)
- 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
2SA75

page 3 and 4

max. torque (running torque at modulating duty)	tripping torque adjustable [Nm] [(lbf ft)] >> the minimum value is set as standard (50% $T_{C max.}$) << other torque settings - see additional features „Y01“	weight ≈ [kg] [(lb)]
15 (11)	10-20 (7-15)	19 (41.9)
30 (22)	20-40 (15-30)	20 (44.1)
60 (44)	40-80 (30-59)	34 (75.0)
125 (92)	87-175 (64-129)	38 (83.8)
250 (184)	175-350 (129-258)	69 (152)
500 (369)	350-700 (258-516)	69 (152)
2000 (1475)	1400-2800 (1033-2065)	136 (300)

DIN ISO 5210	DIN 3210	flange size for the torque ranges [Nm]
F07	-	10-20 20-40
F10	G0	10-20 20-40 40-80 87-122
F12	-	40-80 87-175
F14	G1/2	40-80 87-175 175-350 350-490
F16	G3	175-350 350-700
F25	G4	1400-1960
F30	G5	1400-2800

output shaft form	DIN 1)	output shaft design for the torque ranges [Nm]	output shaft with
A	ISO 5210 103 2)	10 – 20 20 – 40 40 – 80 87 – 175 175 – 350 350 – 700 1400 – 2800	threaded bush + acme thread
B1	ISO 5210	without add. cost	big bore/keyw.
C	3338		claw coupling
B3	ISO 5210		bore w. keyway
B2 / B4 3)	ISO 5210		bore w. keyway

- special output shaft and output shaft design acc. to DIN 3210 on request
- Extra price for bush with acme screw thread LH according to DIN 103, Part 2, thread nominal diameter as listed in Line 1, pitch according to preferred series
The acme screw thread must be expressly stated, e.g. **TR 16 x 4 LH DIN 103!**
- The special bore must be stated, e.g. **ø 26 with featherkey A8x7 DIN 6885!**

= without add. cost

Ordering data

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Ordering data

use with	software-function	1	2	3	4	5	6	7	-	8	9	10	11	12	-	13	14	15	16	add.version	add. cost
ECOTRON	standard version	2	S	A	7	5															
PROFITRON	standard version																				
	positioner																				
	process controller																				
	travel dependent output speed adjustment																				
	positioner + travel dependent output speed adjustment																				
	external analog output speed setpoint																				
	positioner + external analog output speed setpoint																				
	positioner with split-range functionality																				
	travel dependent freely adjustable positioning times																				
	positioner + travel dependent freely adjustable positioning times																				
	process controller + travel dependent freely adjustable positioning times																				

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

adjustment/parameterization according to customer request																				add. cost
tripping torque set to	→ state: ... Nm in direction OPEN and ... Nm in direction CLOSE >> set to 50 % of T _{C max.} as standard <<																			
signaling gear unit set to (omitted for „non-intrusive“)	→ state: ... revs/stroke (0.8; 2.1; 5.5; 14; 36; 93; 240; 610; 1575; 4020) >> 36 revolutions/stroke set as standard << except 2SA757. (0.2; 0.52; 1.37; 3.5; 9; 23.2; 60; 152; 393; 1005) and 2SA758. >> 9 revolutions/stroke set as standard <<																			
output speed set to	→ state: ... rpm ECOTRON (7-step, step-up factor 1.4) >> step 4 is set as standard << PROFITRON (in 2.5% increments of n _{max.}) >> set to 35% of n _{max.} as standard <<																			
further adjustment/parameterization																				
customer specific software-programming																				
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 <<																				
analog position value externally supplied with 24V DC (passive analog output)																				
fieldbus																				
PROFINET connection via RJ45 plug																				
fieldbus connection (PROFIBUS/MODBUS) via FO in line/star topology, 1 channel																				
PROFIBUS connection via FO in loop topology, 1 channel																				
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.																				
connecting cable shielded 3 m (9.8 ft)																				
connecting cable shielded 5 m (16.4 ft)																				
connecting cable shielded 10 m (32.8 ft)																				
customer-plate and product documentation																				
customer-plate with freely definable text																				
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)																				
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																				
top coat of paint for color other than RAL 7037 → also state: color RAL																				

>> other additional features on request! <<

= without add. cost