

## SG 04.2 – SG 10.2 with MEC 03.1

### Electrical data Part-turn actuators with actuator controls

Short-time duty S2 - 15 min and intermittent duty S4 - 40 %, 115 V, 230 V/50 Hz/60 Hz

Electrical data for connection to 1-phase AC 115 V, 50 Hz/60 Hz								
Type	Operating time for 90°	Torque <sup>1)</sup>	Run torque <sup>2)/</sup> Modulating torque <sup>3)</sup>	Power	Motor speed	Rated current <sup>4)</sup>	Max. current <sup>5)</sup>	Starting current <sup>6)</sup>
	[Seconds]	Max. [Nm]	Max. [Nm]	P <sub>N</sub> [W]	Max. [rpm]	I <sub>N</sub> [A]	I <sub>max</sub> [A]	I <sub>A</sub> [A]
SG 04.2	4 – 63	25 – 63	32	80	2,250	1.1	1.5	3.7
SG 05.2	4 – 63	50 – 125	63	120	2,250	1.6	3.0	3.7
SG 07.2	4 – 63	100 – 250	125	175	2,250	2.4	4.1	3.7
SG 10.2	5.6 – 90	200 – 500	250	225	2,250	3.2	6.0	3.7

Electrical data for connection to 1-phase AC 230 V, 50 Hz/60 Hz								
Type	Operating time for 90°	Torque <sup>1)</sup>	Run torque <sup>2)/</sup> Modulating torque <sup>3)</sup>	Power	Motor speed	Rated current <sup>4)</sup>	Max. current <sup>5)</sup>	Starting current <sup>6)</sup>
	[Seconds]	Max. [Nm]	Max. [Nm]	P <sub>N</sub> [W]	Max. [rpm]	I <sub>N</sub> [A]	I <sub>max</sub> [A]	I <sub>A</sub> [A]
SG 04.2	4 – 63	25 – 63	32	80	2,250	0.55	0.75	7.4
SG 05.2	4 – 63	50 – 125	63	120	2,250	0.8	1.5	7.4
SG 07.2	4 – 63	100 – 250	125	175	2,250	1.2	2.1	7.4
SG 10.2	5.6 – 90	200 – 500	250	225	2,250	1.6	3.0	7.4

#### Notes on table

1) Torque	Adjustable tripping torque								
2) Run torque	Permissible average torque in open-close duty S2 - 15 min								
3) Modulating torque	Maximum torque in modulating duty S4 - 40 %								
4) Rated current	Rated current at maximum modulating torque and shortest operating time								
5) Max. current	Current at maximum torque and maximum speed. We recommend selecting the switchgear in compliance with these values.								
6) Starting current	<p>The starting current circuit includes a capacitor. The starting current limit of this circuit amounts to 44 Ohm.</p> <p>The indicated maximum values of the starting current occur during switching on when the AC voltage reaches its peak amount.</p> <table border="0"> <tr> <td>230 V</td> <td>7.4 A</td> </tr> <tr> <td>230 V + 10 %</td> <td>8.2 A</td> </tr> <tr> <td>115 V</td> <td>3.7 A</td> </tr> <tr> <td>115 V + 10 %</td> <td>4.1 A</td> </tr> </table> <p>These values are present for a very short period only when the capacitor is still discharged: less than 10 milliseconds.</p>	230 V	7.4 A	230 V + 10 %	8.2 A	115 V	3.7 A	115 V + 10 %	4.1 A
230 V	7.4 A								
230 V + 10 %	8.2 A								
115 V	3.7 A								
115 V + 10 %	4.1 A								

Motor data is approximate. Due to usual manufacturing tolerances, there may be deviations from the values given. The permissible fluctuation of mains voltage is  $\pm 10\%$ . Higher voltage failures cause reduction in nominal output torque.

The output data of the fuses to be provided on site must not exceed the following values:

15 A/250 V at a maximum mains current of 5,000 A AC.

For protection with circuit breakers, devices with 6 A at 230 V AC, or 13 A at 115 V AC with characteristics D according to VDE 0641 and IEC 60898 with at least 15 kA switching power are recommended.

Groups of up to four actuators can be protected using one circuit breaker with at least 15 kA switching power, 20 A at 230 V AC, or 40 A at 115 V AC, characteristics D according to VDE 0641 and IEC 60898.