

Electrical data Globe valve actuators with integral 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	Output speed	Torque ¹⁾	Running torque ^{2)/} Modulating torque ³⁾	Rated power	Motor speed	Rated current ⁴⁾	Max. current ⁵⁾	Starting current ⁶⁾
	[rpm]	Max. [Nm]	Max. [Nm]	P _N [W]	Max. [rpm]	I _N [A]	I _{max.} [A]	I _A [A]
SVM/SVMR 05.1	1.6 – 22	10 – 25	13	225	2,250	3.2	5.0	3.7
SVM/SVMR 07.1	1.6 – 22	20 – 50	25	280	2,250	4.0	6.0	3.7
SVM/SVMR 07.5	0.6 – 8.0	40 – 100	50	175	2,250	2.4	4.0	3.7

Electrical data for connection to 1-phase AC 230 V, 50 Hz/60 Hz								
Type	Output speed	Torque ¹⁾	Running torque ^{2)/} Modulating torque ³⁾	Rated power	Motor speed	Rated current ⁴⁾	Max. current ⁵⁾	Starting current ⁶⁾
	[rpm]	Max. [Nm]	Max. [Nm]	P _N [W]	Max. [rpm]	I _N [A]	I _{max.} [A]	I _A [A]
SVM/SVMR 05.1	1.6 – 22	10 – 25	13	225	2,250	1.6	2.5	7.4
SVM/SVMR 07.1	1.6 – 22	20 – 50	25	280	2,250	2.0	3.0	7.4
SVM/SVMR 07.5	0.6 – 8.0	40 – 100	50	175	2,250	1.2	2.0	7.4

Notes on table	
1) Torque	Adjustable tripping torque
2) Running 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	The starting current circuit includes a capacitor. The starting current limit of this circuit amounts to 44 Ohm. The indicated maximum values of the starting current occur during switching on when the AC voltage reaches its peak amount. 230V 7.4 A 230V + 10% 8.2 A 115V 3.7 A 115V + 10% 4.1 A These values are present for a very short period only when the capacitor is still discharged: less than 10 milliseconds.

Motor data is approximate. Due to usual manufacturing tolerances, there may be deviations from the values given. The permissible variation of the nominal 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.

For further information, refer to "Technical data Globe valve actuators SVM/SVMR 05.1 – SVM/SVMR 07.5 with integral actuator controls".