SMQR05 – SMQR 300

Technical data Part-turn actuators for modulating duty with 3-phase AC motors

Short-time duty S2 – 15min, 380 V/50 Hz

Part-turn actuator					Motor				
Type	Valve attachment EN ISO5211	Cylindrical max.mm	Operating time for 90° [in seconds]	Max. torque [Nm]	Nominal power[1)] P_N [kW]	Nominal current[2)] I_N [A]	Max. current[3)] I_{max} [A]	Starting current I_A [A]	cos ϕ
SMQ05	F07	20	22	50	0.02	0.3	0.45	1.1	0.11
SMQ08	F07	20	22	80	0.02	0.3	0.45	1.1	0.11
SMQ10	F07	20	22	100	0.02	0.3	0.45	1.1	0.11
SMQ15	F10/F07	22	25	150	0.04	0.31	0.58	1.5	0.2
SMQ20	F10/F07	22	25	200	0.04	0.31	0.58	1.5	0.2
SMQ30	F12/F10	35	31	300	0.09	0.35	0.71	1.62	0.4
SMQ50	F12/F10	35	31	500	0.09	0.59	0.78	1.63	0.23
SMQ60	F12/F10	35	31	600	0.12	0.6	0.85	1.65	0.31
SMQ80	F14/F12	45	37	800	0.18	0.85	1.45	2.93	0.32
SMQ120	F14	45	37	1200	0.18	0.87	1.55	2.98	0.31
SMQ150	F14	45	93	1500	0.18	0.85	1.45	2.93	0.32
SMQ200	F14	45	112	2000	0.18	0.85	1.45	2.93	0.32
SMQ300	F14	45	112	3000	0.18	0.87	1.55	2.98	0.31

Notes on table

1) Nominal power P_N — Mechanical power output at motor shaft at running torque of multi-turn actuator

(corresponds to approx. 35 % of maximum torque).
Consumed electrical power can be calculated using the following formula:

$P = U \times I \times \cos \phi \times \sqrt{3}$

2) Nominal current I_N — Current at running torque.

3) Max. current I_{max} — Current at maximum torque