SCHWARZ®

SMQR05 – SMQR 300

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

Intermittent duty S4 – 25%, 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
SMQR05	F07	20	22	50	0.02	0.3	0.45	1.1	0.11
SMQR08	F07	20	22	80	0.02	0.3	0.45	1.1	0.11
SMQR10	F07	20	22	100	0.02	0.3	0.45	1.1	0.11
SMQR15	F10/F07	22	25	150	0.04	0.31	0.58	1.5	0.2
SMQR20	F10/F07	22	25	200	0.04	0.31	0.58	1.5	0.2
SMQR30	F12/F10	35	31	300	0.09	0.35	0.71	1.62	0.4
SMQR50	F12/F10	35	31	500	0.09	0.59	0.78	1.63	0.23
SMQR60	F12/F10	35	31	600	0.12	0.6	0.85	1.65	0.31
SMQR80	F14/F12	45	37	800	0.18	0.85	1.45	2.93	0.32
SMQR120	F14	45	37	1200	0.18	0.87	1.55	2.98	0.31
SMQR150	F14	45	93	1500	0.18	0.85	1.45	2.93	0.32
SMQR200	F14	45	112	2000	0.18	0.85	1.45	2.93	0.32
SMQR300	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