SMR 04.1–SMR08.1 SCHWARZ®

Electrical data Multi-turn actuators for Modulating duty with 3-phase AC motors

Intermittent duty S4-25%, 380V/50 Hz

Multi-turn actuator				Motor							
	Output	Max.	Approximate weight		Nominal	Nominal	Max.	Starting		SCHWARZ class switc	
Туре	speed rpm	torque [NM]	[kg]	Motor type	power¹ P _N [kW]	current ²⁾ I _N [A]	current ³⁾ I _{max} [A]	I _A [A]	cos þ	Contactor	Thyristor
	11			MD08-0.04	0.04	0.18	0.23	0.69	0.67	C1	T1
SMR04.1	14	40	14	MD08-0.06	0.06	0.23	0.31	0.93	0.79	C1	T1
	22	- 10	1 7	MD08-0.06	0.06	0.23	0.35	1.05	0.79	C1	T1
	9			MD20-0.06	0.09	0.39	0.51	1.53	0.7	C1	T1
SMR06.1	13	60	18	MD20-0.09	0.09	0.49	0.64	1.92	0.55	C1	T1
	19		10	MD20-0.09	0.09	0.49	0.74	2.22	0.55	C1	T1
	9			MD30-0.09	0.09	0.49	0.64	1.92	0.55	C1	T1
SMR08.1	13	80	19	MD30-0.12	0.12	0.58	0.81	2.43	0.62	C1	T1
	19		13	MD30-0.12	0.12	0.58	0.92	2.76	0.62	C1	T1

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:

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

Nominal current I_N Current at running torque.
Max. current I_{max} Current at maximum torque

Notes on installation and sizing

Motor data is approximate. Due to usual manufacturing tolerances, there may be deviations from the values

given.

Thermoswitches/PTC thermistors To protect against overheating, thermoswitches or PTC thermistors are embedded in the motor windings.

Actuators without integral controls:

Thermoswitches or PTC thermistors have to be considered within external controls (refer to terminal plan).

Note: Failure to connect thermoswitches or PTC thermistors shall void our warranty for the motor.

Rating of thermoswitches

AC cur	rent	DC current			
250 V, 50	– 60 Hz	60 V	1.0 A		
$\cos \phi = 1$	2.5 A	42 V	1.2 A		
$\cos \phi = 0.6$	1.6 A	24 V	1.5 A		

Actuators with SC integral controls:

Thermal motor protection is already integrated.

Mains voltage, mains frequency Permissible variation of mains voltage: ±10 %

Permissible variation of mains frequency: ±5%

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Electrical data Straight stroke actuators for modulating duty with 3-phase AC motors Intermittent duty S4 – 25%, 380V/50 Hz

Switchgear sizing

For motor operation, reversing contactors (mechanically, electrically and electronically locked) or thyristors (electronically locked) can be used.

Actuators without integral controls:

Switchgears are supplied by the customer. We recommend specification of switchgears suitable for their rated operating power/motor power in compliance with the assigned SCHWARZ power class.

Switchgear assignment to SCHWARZ power classes:

SHCWARZ power class	Reversing contactor Rated power according to EN 60947-4-1:2010 AC-3	Reversing contactor motor power according to UL/CSMLR	
	380 V AC	480 V AC	600 V AC
C1	4.0 kW	5.0 hp	5.0 hp
C2	7.5 kW	10 hp	10 hp
C3	15 kW	20 hp	25 hp
C4	30 kW	60 hp	60 hp
C5	55 kW	75 hp	100 hp
Actuators with S	C integral controls:	·	·

kequirea switchgears are aiready integrated.

We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

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