
Neuromeka CORE smart actuator specification

(Data measured at nominal voltage)

Revision 02

2019.07.23

	MODEL			CORE200
	Description	Symbol	Units	value
1	Nominal voltage	V	Volts DC	48
2	Rated power	P _{out}	W	200
3	No-load output speed	S	deg/s	150
4	Full-load maximum output speed	S _r	deg/s	125
5	Stall continuous current (*)	I _{cs}	A _{peak}	6.79
6	Peak current (*)	I _{pk}	A _{peak}	21.5
7	Rated output torque (**)	T _r	Nm	47.5
8	Torque constant	K _t	Nm/A _{peak}	0.087
9	Encoder resolution		count/turn	7929856
10	Gear ratio	HDratio		121
11	Brake supply voltage (***)	V _{brk}	Volts DC	24
12	Size		mm x mm	Φ90 x 151
14	Weight	M	kg	1.84

Notes:

- (*) Current (A) is peak (amplitude) of phase's sine current
- (**) Output torque is computed with assumption that harmonic drive efficiency of 70%, actual value can be varied depending on friction
- (***) Beside main supplied voltage, an additional 24V (minimum 0.5A) source is needed for brake. Two power sources have common GND