

Servo Shaft _ 45SQ series Actuator and Component

Force

- Peak: 460-2298N
- Continuous: 153-766N
- High thrust density

Maximum Velocity

- Up to 3m/s

Range of motion

- 5mm-1100mm



45SQ Series Electrical Specification:

Parameters	Unit	4501SQ	4502SQ	4503SQ	4504SQ	4505SQ
Peak force	N	460	920	1380	1839	2298
Continuous force	N	153	306	460	613	766
Peak current	A	7.5	7.5	7.5	7.5	7.5
Continuous current	A	2.5	2.5	2.5	2.5	2.5
Force constant	N/Arms	61.3	122.6	184	245.3	306.6
Back EMF constant	Vpk/m/s	50.1	100.3	150.4	200.5	250.6
Max speed	m/s	3	2	1	0.8	0.6
Forcer W*H*L	mm	83*83*70	83*83*130	83*83*190	83*83*250	83*83*310
Rod diameter	mm	45	45	45	45	45
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	29.4	58.9	88.3	117.7	147.1
Resistance (phase to phase)	omiga	9.7	19.4	29.1	38.8	48.5
Pole pitch	mm	120	120	120	120	120

* Parameters tolerance: 10%

Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

45SQ SERIES OUTLINE DRAWINGS (Unit: mm)

