

Servo Shaft _ 16 series Actuator and Component

Force

- Peak: 42-105N
- Continuous: 14-35N

Maximum Velocity

- Up to 4m/s

Built-in Feedback

- Can built-in position sensor
- Three differential sin wave signals displaced by 120 degrees , +5VDC supply
- Industry standard 1V p-p sin/cos signals is optional
- Maximum 4 micron resolution and 8 micron repeatability

Range of motion

- 5mm-1000mm



16 Series Electrical Specification:

Parameters	Unit	SLM160 4	SLM160 5	SLM160 6	SLM160 7	SLM160 8	SLM160 9	SLM161 0
Peak force	N	42	52.5	63	73.5	84	94.5	105
Continuous force	N	14	17.5	21	24.5	28	31.5	35
Peak current	A	4.2	4.2	4.2	4.2	4.2	4.2	4.2
Continuous current	A	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Force constant	N/Arms	10	12.5	15	17.5	20	22.5	25
Back EMF constant	Vpk/m/s	8.1	10.2	12.2	14.2	16.3	18.3	20.3
Max speed	m/s	4	4	4	4	4	4	4
Peak acceleration	m/s/s	100	100	100	100	100	100	100
Max stroke	mm	1000	985	970	955	940	925	910
Forcer W*H*L	mm	38*38* 108.5	38*38* 123.5	38*38* 138.5	38*38* 153.5	38*38* 168.5	38*38* 183.5	38*38* 198.5
Rod diameter	mm	16	16	16	16	16	16	16
Built-in sensor	um	5-25	5-25	5-25	5-25	5-25	5-25	5-25
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	0.8	1	1.2	1.4	1.6	1.8	2
Resistance (phase to phase)	omiga	5.6	7	8.4	9.8	11.2	12.6	14
Pole pitch	mm	30	30	30	30	30	30	30

* Parameters tolerance: 10%

16 SERIES OUTLINE DRAWINGS (Unit: mm)

