

SANMOTION

LINEAR SERVO MOTOR

Compact Cylinder Linear Servo Motor

■ Features

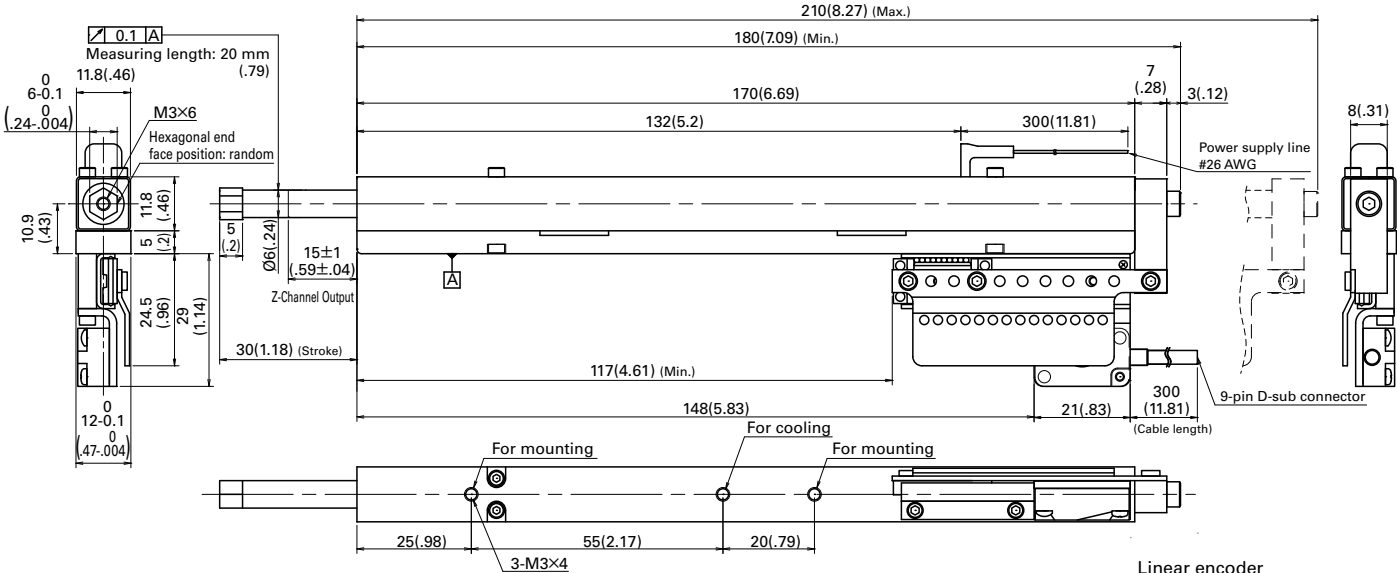
- This compact 12 mm wide motor provides 5.1 N rated thrust, ideal for chip mounter heads.
- Quick acceleration and deceleration enable high hit rate operation to increase system speed.
- Built-in linear encoder and linear guide facilitate simplified system designs.
- Usable as a single unit or as multiple units arranged in parallel for flexible configuration to suit various system designs.



■ Applications

Component mounting heads (Z-axis) of chip mounters and semiconductor manufacturing equipment

■ Dimensions [Unit : mm (inch)]



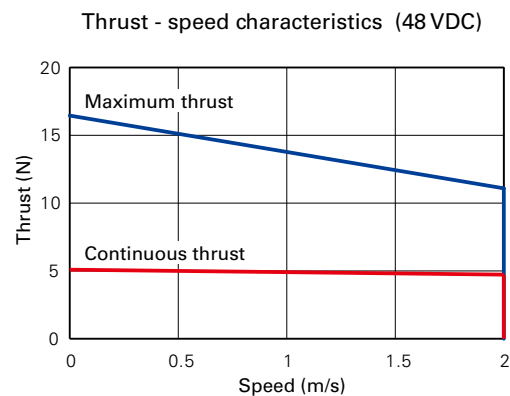
Linear encoder
 Minimum resolution: 1.0 μm
 9-pin D-sub connector

No.	Signals
2	Channel Z
3	Channel B
4	Channel A
5	+ 5 VDC
6	Channel Z̄
7	Channel B̄
8	Channel Ā
9	GND/Inner shield

• Consult with us or your supplier about installation methods.

Specifications

Item	Symbol	Unit	Specification
Model no.			DE0AC001A03MX00
Drive method			Sinusoidal
Excitation method			Permanent magnet type
Rating			Continuous
Rated thrust	F_R	N	5.1
Continuous stall thrust	F_S	N	5.1
Maximum thrust	F_P	N	16.5
Rated current	I_R	Arms	0.6
Continuous stall current	I_S	Arms	0.6
Maximum current	I_P	Arms	2.0
Rated speed	V_R	m/s	1.0
Maximum speed	V_{max}	m/s	2.0
Coil mass	M_C	g	45
Motor mass	W	g	185
Linear encoder			Optical incremental
Linear encoder resolution (after quadrature)		μm	1



Compatible Servo Amplifier

Can be combined with our SANMOTION R servo amplifier.

Item	Specification
Model no.	RS2K04AAHA5
Servo amplifier capacity	40 A
Input voltage (Main / Control)	48 VDC / 24 VDC
Interface	EtherCAT
Size	40 × 160 × 85 mm