

TA3

series



Product Segments

Auto Motion

TA3 is an ideal product especially created for harsh working environment. While working with heavy-duty machinery, such as harvester, construction machinery, and other industrial equipment, we would like to recommend our reliable TA3 to those, who need to meet severe specification and challenges in the extreme working conditions.

General Features

Spindle ACME or Ball screw

Voltage of motor 12V DC, 24V DC, 36V DC, 110V AC,

or 230V AC

Maximum load 4,500N in pull/push

Maximum speed 58.5mm/s

Minimum installation dimension stroke+160mm (without POT)
Minimum installation dimension stroke+196mm (with POT)

Color black

Protection class IP66 dynamic

Options Overload clutch, Hall sensor, POT,

manual crank function

Mechanical or electromagnetic brake

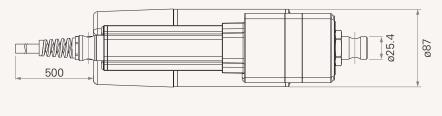
Test under change of temperature, dry heat, salt spray, chemicals, vibration,

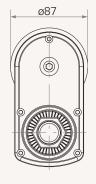
bump, shock...etc.

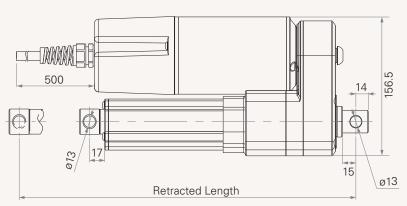
Heavy duty cycle (20%), corrosion proof

Drawing

Standard Dimension







Speed at

Full Load

Load and Speed

CODE Gear Ratio LOAD

С

20:1

(N)

4500

2.0

CODE	Gear Ratio	LOAD (N)	Current a Full Load (A)		Speed a No Load (mm/s)		Speed a Full Load (mm/s)	
			12V DC	24V DC	12V DC	24V DC	12V DC	24V DC
ACME	Screw, DC	Motor (12	V DC/24	V DC/36	SV DC)			
В	10:1	1500	15.4	7.7	29.5	29.5	27.0	27.0
С	20:1	2500	14.0	7.0	15.8	15.8	14.3	14.3
Ball Sc	rew, DC Mo	otor (12V l	DC/24V	DC/36V	DC)			
Α	5:1	2500	25.0	12.5	58.5	58.5	48.0	48.0
В	10:1	3500	18.0	9.0	29.8	29.8	25.5	25.5
С	20:1	4500	13.0	6.5	16.0	16.0	14.0	14.0

			(A)		(mm/s)		(mm/s)	
			115V AC	230V AC	115V DC	230V AC	115V DC	230V AC
ACM	IE Screw, AC	Motor (11	10V AC 60	HZ/230	V AC 50	HZ)		
В	10:1	1500	2.0	1.0	26.1	22.5	23.0	21.0
С	20:1	2500	2.0	1.0	14.1	12.0	12.8	11.2
Ball	Screw, AC N	lotor (110\	/ AC 60H	Z/230V /	AC 50HZ)		
Α	5:1	2500	2.5	1.3	53.0	46.0	38.5	40.0
В	10:1	3500	2.1	1.1	27.0	23.5	22.5	21.5

1.0

Speed at

No Load

14.5

12.0

13.0

11.5

Current at

Full Load

Note

- 1 Please contact TiMOTION before making an order.
- 2 Push = Pull.
- **3** Rated load = self locking force, if choose mechanical brake.

Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application.

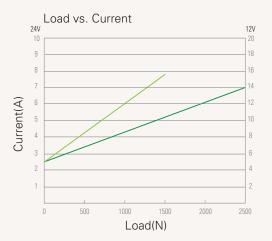
Due to continuous development in order to improve our products, TiMOTION products are subject to frequent modifications and changes without prior notice.

TIMOTION reserves the right to discontinue the sale of any products displayed on its website or listed in its catalogue or other written materials drawn up by TIMOTION.



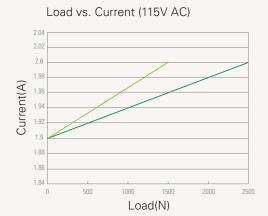
Graph Chart

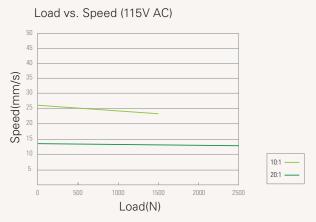
ACME Screw, DC Motor





ACME Screw, AC Motor





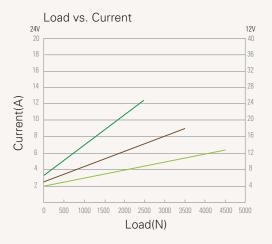






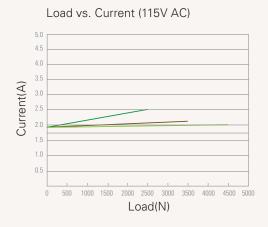
Graph Chart

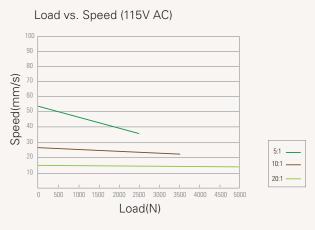
BALL Screw, DC Motor

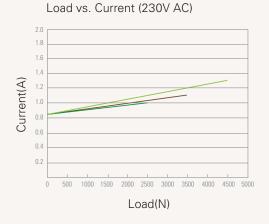




BALL Screw, AC Motor











Minimun Retracted Length

Spindle Type	Mechanical Brake	Without POT	With POT
DC Motor (12V DC/24	1V DC/36V DC)		
ACME screw	Without	Stroke+160mm	Stroke+196mm
ACME screw	With	Stroke+195mm	Stroke+231mm
Ball screw	With	Stroke+201mm	Stroke+241mm
AC Motor (110V AC 6	0HZ/230V AC 50HZ)		
ACME screw	Without	Stroke+160mm	Stroke+196mm
ACME screw	With	Stroke+195mm	Stroke+231mm
Ball screw	With	Stroke+201mm	Stroke+241mm



TA3 Ordering Key



Cuindle Tone	
Spindle Type	A = ACME screw B = Ball screw
Voltage	1 = 12V DC 2 = 24V DC 3 = 36V DC 4 = 110V AC 60HZ 5 = 230V AC 50HZ Note: #3 please contact TiMOTION before making an order
Load and Speed	See appendix
Stroke	
Retracted Length	See appendix
Rear Attachment	1 = Hole 13mm A = Customized
Front Attachment	1 = Hole 13mm A = Customized
Direction of Rear	Attachment (Counterclockwise) 1 = 90° (standard) 2 = 0°
Overload Clutch	0 = Without 1 = With (standard)
	0.1451
Mechanical Brake	0 = Without 1 = With (Ball screw's standard option) Note: choose #1, rated load = self locking force
Mechanical Brake	Note: choose #1, rated load = self locking force
	Note: choose #1, rated load = self locking force
Electromagnetic B	Note: choose #1, rated load = self locking force 0 = Without (standard) 1 = With
Electromagnetic B	Note: choose #1, rated load = self locking force Take 0 = Without (standard) 1 = With 6 = IP66 dynamic
Electromagnetic B IP Protection Manual Crank	Note: choose #1, rated load = self locking force 0 = Without (standard) 1 = With 6 = IP66 dynamic 0 = Without 1 = With