* See page Pre-47 for details on the model descriptions.

RoHS

3-SA2BC Model Specification Items

RCP3 - SA2BC-**20P** ı — Type — Encoder type — Motor type Lead

> I: Incremental The Simple absolute 20□ size encoder is also considered type "I".

Stroke 20P: Pulse motor, 6S: 6mm lead screw 4S: 4mm lead screw 2S:2mm lead screw

25: 25mm 150: 150mm (25mm pitch increments)

Applicable controller P1: PCON-PL/PO/SE **PSEL**

MSEP

P3: PCON-CA

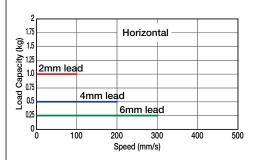
Cable length - Options NM: Non-motor end

P: 1m S: 3m PMEC/PSEP M:5m X□□:Custom length

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

N: None



OIN selection

 ϵ

- (1) The load capacity is based on operation at an acceleration of 0.2G. This value is the upper limit for the acceleration.
- (2) The actuator cannot be used on its side or in a vertical orientation.
- (3) If used in a dusty environment, the service life will decrease significantly.
- (4) This model uses a lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-52.)
- (5) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads

Feed	Lead	Max. Load Capacity		Positioning	Stroke	
screw	(mm)	Horizontal (kg)	Vertical (kg)	(mm)	(mm)	
	6	0.25	_			
Lead screw	4	0.5	_	±0.05	25~150 (every 25mm)	
	2	1	_			
	screw	screw (mm) 6 Lead 4	Screw (mm) Horizontal(kg) 6 0.25	Screw (mm) Horizontal (kg) Vertical (kg)	Ced Ced	

Option code | See page | Standard price

■ Stroke and Maximum Speed

Stroke		25 (mm)	50 (mm)	75~150 (mm)	
w	6	180	280	300	
Lead screw	4	180	200		
e7	2		100		

Technical

References

(Unit: mm/s)

4 Options

Non-motor end specification

①Stroke (mm)	Standard price
25	_
50	_
75	_
100	_
125	_
150	_

③Cable Length

Туре	Cable symbol	Standard price
Standard (Robot Cables)	P (1m)	_
	S (3m)	_
	M (5m)	_
Special length	X06 (6m) ~ X10 (10m)	_
	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_

^{*}The standard cable for the RCP3 is the robot cable.
*See page A-59 for cables for maintenance.

Actuator Specifications	
Item	Description
Drive System	Lead screw, ø6mm, rolled C10
Lost Motion	0.3mm or less (initial value)
Base	Material: Aluminum, white alumite treated
Guide (*)	Slide guide
Ambient Operating Temp./Humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service Life	10 million cycles

^{*} Offset load not supported.

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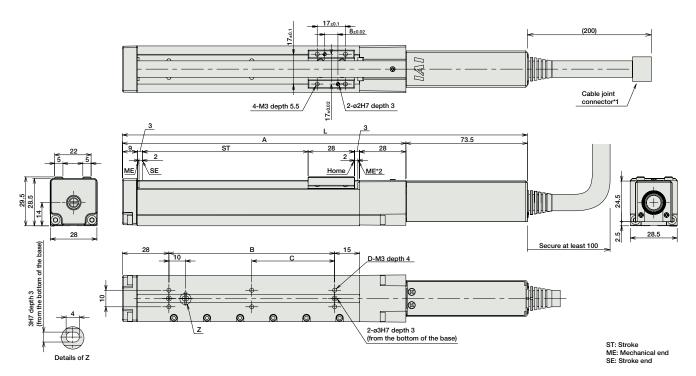
For Special Orders







- Connect the motor-encoder integrated cable here. See page A-59 for details on cables. During the homing operation, the slider moves to the actuator's mechanical end, and then reverses. *2 Therefore, watch for any interference with its surroundings.



■ Dimensions and Mass by Stroke

= Difficultions and Mass by Stroke								
Stroke	25	50	75	100	125	150		
L	169.5	194.5	219.5	244.5	269.5	294.5		
Α	96	121	146	171	196	221		
В	25	50	75	100	125	150		
С	0	0	0	50	62.5	75		
D	4	4	4	6	6	6		
Weight (kg)	0.3	0.32	0.35	0.37	0.4	0.42		

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Calanaid\/ah.a.T.ma		PMEC-C-20PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P53
Solenoid Valve Type	1	PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P54
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		, DEC
Solenoid valve multi-axis type Network specification		MSEP-C-(11)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P563
Positioner type High-output specification		PCON-CA-20PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
Pulse-train type High-output specification		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P60
Field network type High-output specification		PCON-CA-20PI-⑩-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support	()			_	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support	(—)		Refer to P628	_] → P62
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-20PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P66

*This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V).
* ② indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.

IAI

RCP3-SA2BC