



Actuator Specifications (High-output Setting Enabled)

Leads and Payloads (Note 1) Tak	e caution 1	that the maximum	payload decrease	es as the speed incr	eases.
Model number	Lead (mm)	Maximum pay Horizontal (kg)	vload (Note 1) Vertical (kg)	Maximum push force (N)	Stroke (mm)
ERC3-RA4C-I-42P-20-①-②-③-④	20	6	1.5	56	
ERC3-RA4C-I-42P-12-①-②-③-④	12	25	4.5	93	50~300
ERC3-RA4C-I-42P-6-①-②-③-④	6	40	12	185	(every 50 mm)
ERC3-RA4C-I-42P-3-①-②-③-④	3	40	18	370	

Stroke and Maximum Speed					
Stroke Lead	50~200 (every 50mm)	250 (mm)	300 (mm)		
20		800			
12	700	695	485		
6	450	345	240		
3	225	170	120		
			(Unit: mm/s)		

Legend ① Stroke ② I/O type ③ Cable length ④ Option

1) Stroke	
Stroke (mm)	Standard price
50	_
100	—
150	—
200	—
250	—
300	_

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Turne	Cable symphol	Standard price		
Type	Cable symbol	PIO type	SI0 type	
	P (1m)	—	_	
(Robot cablo)	S (3m)	—	—	
(Robot cable)	M (5m)	_		

Special length	X06(6m)~>	(10(10m

Refer to P. 36 for maintenance cables.

④Options Standard Option Name See page code price B →P15 Brake Non-motor side specification NM →P15 Simple absolute specification ABU →P15 -(*) Flange FL →P15 Foot bracket FT →P15

(*) If the simple absolute specification is selected, the separately sold PIO converter of simple absolute specification (with battery) is required.



ERC3-RA4C



* If the non-motor side (NM) specification is selected, the dimension on the motor side (the distance to the home from ME) and that on the front side are flipped.













*2 The slider moves to the ME during home return, so pay attention to possible contact with surrounding structures.

*3 The orientation of the bolt will vary depending on the product.



Supplied square nut for mounting via the T-slot (4 pcs are supplied) Supplied rod end nut

External viev	v of the	prake spec	Incatio
*The overall lengt is 42.5 mm longe and its mass is 0.4	h of the bi r than the 4 kg heavi	rake specificatio standard specif er.	n ication

External view of the brake specification

Actuator specificaton	
ltem	Description
Drive system	Ball screw ø10 mm, rolled C10
Positioning repeatability (*1)	± 0.02 mm [± 0.03 mm]
Lost motion	0.1 mm or less [0.2 mm or less]
Rod diameter	ø25 mm
Rod non-rotation preciseness	±1.5 degrees
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

Dimensi	ons and Ma	ass by Stro	ke
Stroko	50	100	

186.5

Churcher	50	100	150	200	250	200
Stroke	50	100	150	200	250	300
L	286	336	386	436	486	536
F	142	192	242	292	342	392
Mass (kg)	1.4	1.7	2.0	2.3	2.6	2.9

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Controlle	ontrollers (Built into the Actuator)								
②I/O type With the ERC3	series, one of the fo	llowing five types of built-in controllers ca	n be selected depending on the	external input/outpu	ıt (I/O) type. S	elect the type tha	t meets your	purpose.	
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page	
PIO type (NPN specification)		ERC3-RA4C-I-42P-□-□-NP-□-□	Simple control type accommodating up to 16 positioning points	16					
PIO type (PNP specification)		ERC3-RA4C-I-42P-□-□-PN-□-□	PNP I/O type	16		High-output setting			
SIO type	P	ERC3-RA4C-I-42P-□-□-SE-□-□	High-function type accommodating up to 512 positioning points (PIO converter is used)	512	DC24V	enabled: 3.5A rated 4.2A max. High-output	_	→P27	
Pulse-train type (NPN specification)		ERC3-RA4C-I-42P-□-□-PLN-□-□	Pulse-train input type supporting the NPN specification	-	DC24V High-outp setting disabled 2A	setting disabled: 2A			
Pulse-train type (PNP specification)		ERC3-RA4C-I-42P	Pulse-train input type supporting the PNP specification	_					





