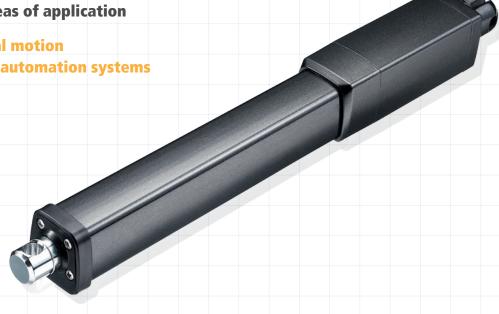
## **Typical areas of application**

- Industrial motion
- Building automation systems



The JP3 series inline linear actuator was designed for low load industrial applications where up to IP69K dust and liquid ingress protection is necessary. It is best suited for applications with visual or compact installation dimension requirements. Hall sensors are optional for the JP3 which allow for synchronization and position feedback.

## **Key figures**

- Voltage of motor
- Max. load
- Max. speed at full load
- Standard stroke
- Min. installation dimension
- IP rating
- Color
- Standards, directives
- Operational temperature range
- Operational temperature range at full performance
- Storage temperature range

12 V DC or 24 V DC

2000 N in push/pull

20.0 mm/s (with 500 N in a push or pull condition)

20 ~ 500 mm

stroke+217 mm

up to IP69K

black or grey

EN60601-1 compliant

-5 °C ~ +65 °C

+5 °C ~ +45 °C

-40 °C ~ +70 °C

An inline actuator specially designed for small spaces.

## **Load and speed**

CODE	Lo	ad	Self locking	Typical c	urrent 2)	Typical	speed
	push	pull	force 1)	no load 24 VDC	with load 24 VDC	no load 24 VDC	full load 24 VDC
	[N)	(N)	[N]	[A]	[A]	[mm/s)	[mm/s)
		Motor	speed 5600 n	nin <sup>-1</sup> , duty cyc	le 10%		
В	2000	2000	2000	1.0	3.0	7.5	4.2
С	1500	1500	1500	1.0	3.0	10.5	6.5
D	1000	1000	1000	1.0	3.0	15.5	9.5
E	500	500	500	1.0	3.0	26.5	20.0

#### **Note**

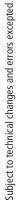
- 1) This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the control boxes have this feature built-in.
- 2) With a 12 V motor, the current is approximately twice the current measured in 24 V; speed will be similar for both voltages.

### **Wire definitions**

CODE*	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
	(green)	(red)	(white)	(black)	(yellow)	(blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A
3	extend (VDC+)	common	upper limit switch	N/A	retract (VDC+)	lower limit switch
4	extend (VDC+)	common	upper limit switch	medium limit switch	retract (VDC+)	lower limit switch

#### Note

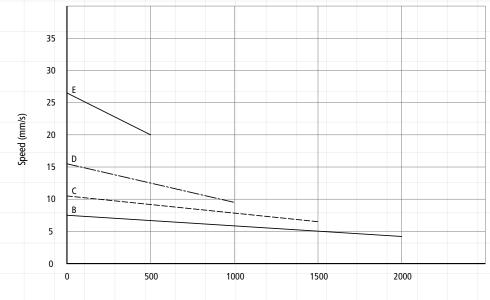
\* See ordering key – functions for limit switches.



## Performance data (24 VDC motor)

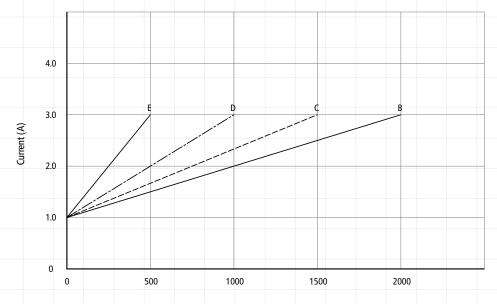
Motor speed 5600 min<sup>-1</sup>, duty cycle 10%





Thrust (N)

#### Current vs. Thrust



Thrust (N)

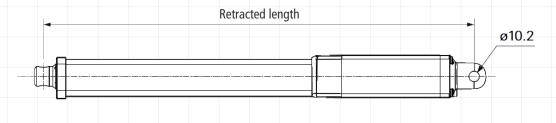
#### Note

• The performance data in the curve charts shows theoretical value.

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## **Drawing**

Standard dimensions (mm)







## **Retracted length (mm)**

## Retracted length ≥ Stroke+A+B+C

A
+217
+217
+230
+230
+230

В										
Stroke (mm)				В						
20~150				-						
151~200				-						
201~250				+!	5					
251~300				+	10					
301~350				+	15					
351~400				+2	20					

<b>C</b> Code o	output si	gnals										
0						-						
1						+	13					
2						+	13					

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# **lectric actuator JP3**

P	ac	ıe	5

Voltage	1 = 12 V	2 = 24 V	5 = 24 V, PTC		
Load and speed	see page 2				
Stroke (mm)					
Retracted lenght (mm)	see page 5				
Rear attachment	1 = aluminum ca	sting, U clevis, slot 4	.2 mm, depth 18.0 mm, h	ole 10.2 mm	
Front attachment	2 = aluminum ca 3 = aluminum ca		0 mm .0 mm, depth 13.0 mm h		
			.0 mm, depth 13.0 mm, h .0 mm, depth 13.0 mm, h		
Direction of rear atta (counterclockwise)	5 = aluminum ca		.0 mm, depth 13.0 mm, h .0 mm, depth 13.0 mm, h		
	5 = aluminum ca	sting, U clevis, slot 6		ole 8.0 mm	
(counterclockwise)	5 = aluminum ca	sting, U clevis, slot 6	0 mm, depth 13.0 mm, h	ole 8.0 mm	
(counterclockwise) Color	5 = aluminum ca chment 1 = black 1 = without	sting, U clevis, slot 6 $1 = 0^{\circ}$ $3 = IP66$	2 = grey (Pantone	e 428C)	
(counterclockwise) Color IP rating Special functions for	5 = aluminum ca chment  1 = black  1 = without 2 = IP54  0 = without (standard)  1 = two switches 2 = two switches 3 = two switches	3 = IP66 5 = IP66W  s at full retracted/extes	2 = grey (Pantone	rrent rrent + 3rd LS to send signal	
(counterclockwise)  Color  IP rating  Special functions for spindle sub-assembly  Functions for	5 = aluminum ca chment  1 = black  1 = without 2 = IP54  0 = without (standard)  1 = two switches 2 = two switches 3 = two switches	sting, U clevis, slot 6  1 = 0°  3 = IP66 5 = IP66W  s at full retracted/exters at full retracte	2 = grey (Pantone 6 = IP66D 7 = IP68  ended positions to cut cuended positions to cut cuended positions to send sended positions to	rrent rrent + 3rd LS to send signal ignal + 3rd LS to send si	
(counterclockwise)  Color  IP rating  Special functions for spindle sub-assembly  Functions for limit switches	5 = aluminum ca chment  1 = black  1 = without 2 = IP54  0 = without (standard)  1 = two switches 2 = two switches 3 = two switches 4 = two switches	sting, U clevis, slot 6  1 = 0°  3 = IP66 5 = IP66W  s at full retracted/extes	2 = grey (Pantone 6 = IP66D 7 = IP68  ended positions to cut cuended positions to send sended positions to send	rrent rrent + 3rd LS to send signal ignal + 3rd LS to send si	

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