JC35W2 Linear Actuator

JC35W2 is similar with JC35W1, which is also a model of W series. A more powerful motor makes JC35W2 thrust up to 3000N yet compact size. It is also available for signal feedback of hall sensors. JC35W2 can be widely used to hospital beds, patient lift, TV lift and etc. where space is limited.



Features And Options

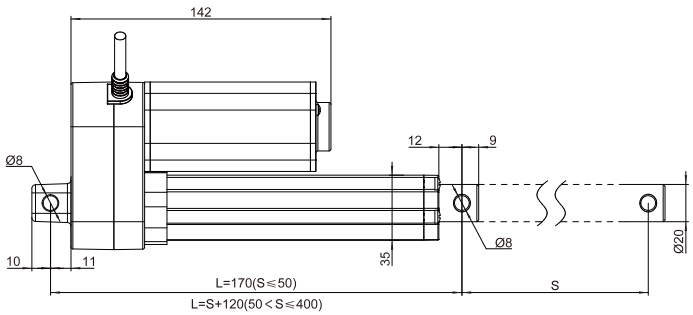
Dynamic Load Push(N):	3000 | 2000 | 1000
Dynamic Load Pull (N):	3000 | 2000 | 1000
Colour:	Silver gray
Protection Class:	IPX4
Stroke Length:	3000N: 50-250mm (in steps of 4mm) 2000N: 50-400mm (in steps of 4mm) 1000N: 50-400mm (in steps of 4mm)
Installation Dimension:	L=170 (S≤50) L=S+120 (50<S≤400)
Noise Level:	≤48dB (environmental noise level≤40dB)
Optional:	Hall sensor
Limit Switch:	Built-in (electronic)
Weight:	About 1.7kg (different stroke length and installation dimensions with different weight)
Static Bending Moment:	Lateral load is not allowed
Approval:	IEC60601-1: 2012 EN 60601-1: 2006+A12:2014 ANSI/AAMI ES60601-1: 2005/(R)2012 and A1: 2012 C1:2009/(R)2012 and A2: 2010/(R)2012

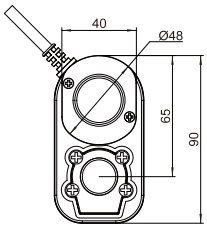
Usage

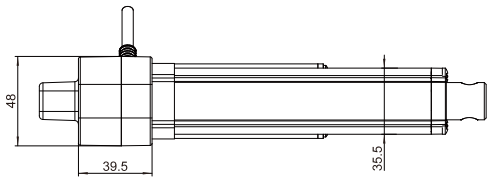
Duty Cycle:	10%, max. continuous work for 2min. and 18 min. off
Operating Temperature:	+5°C to +40°C
Reserve Temperature:	-10°C to +50°C
Supporting Control Box:	Matching with JIECANG control boxes
Relative Humidity:	20% to 90% at 30 °C, non-condensing
Atmospheric Pressure:	700 to1060hPa

Dimensions

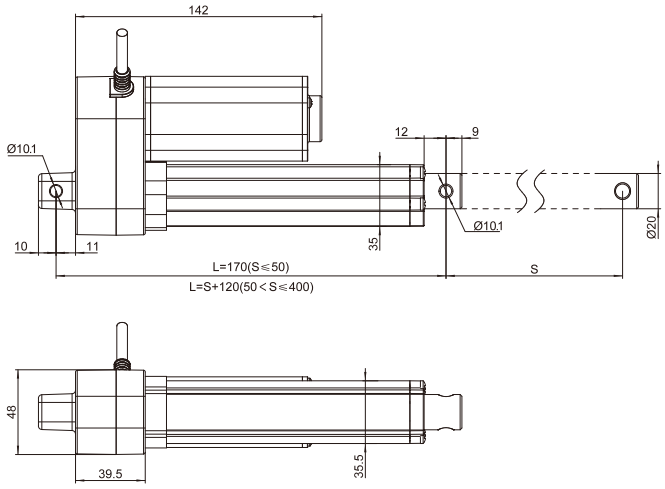
Front clevis F47, end clevis 37

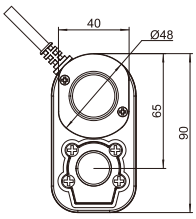






Front clevis 80, end clevis 40



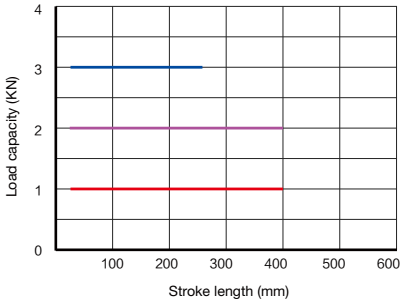


Technical Specifications (Standard Value)

Input voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical self-locking (N)	Speed at no load/full load (mm/s)	Current at full load (A)
12	10	1000	1000	600	20/13.5	6
12	7.5	1000	1000	1000	13/8.5	6
12	4	1000	1000	1000	8/5.5	6
24	20	1000	1000	500	16.6/10	3
24	10	1000	1000	600	9.9/6.5	3
24	7.5	2000	2000	1500	8.3/3.9	3
24	4	3000	3000	3000	4.4/2.2	3
24	10	1000	1000	600	18.2/13.5	5
24	7.5	2000	2000	1500	14.1/9	5
24	4	3000	3000	3000	7.4/5	5
29	20	1000	1000	500	20/12	3
29	10	1000	1000	600	12/7.9	3
29	7.5	2000	2000	1500	10/4.7	3
29	4	3000	3000	3000	5.3/2.6	3
29	10	1000	1000	600	22/16.3	5
29	7.5	2000	2000	1500	17/9	5
29	4	3000	3000	3000	9/6	5
48	10	1000	1000	600	21/16	5
48	7.5	2000	2000	1500	15/10	5
48	4	3000	3000	3000	8.5/6	5

Remarks: It can achieve better self-locking ability with Jiecang control box;
The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

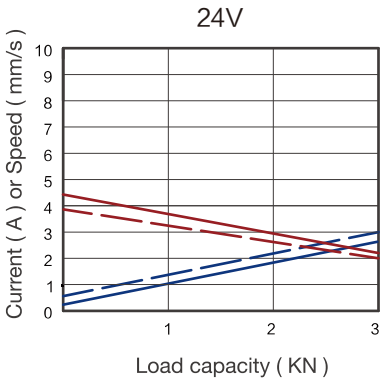
Diagram of relationship between stroke length and load

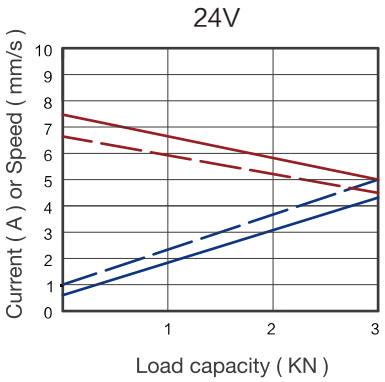


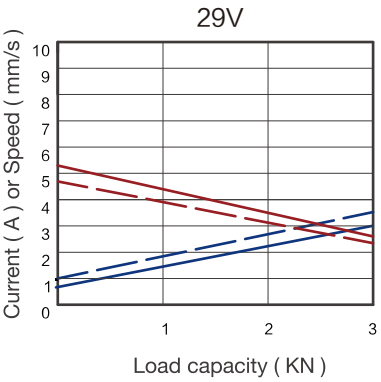
Characteristic Curve

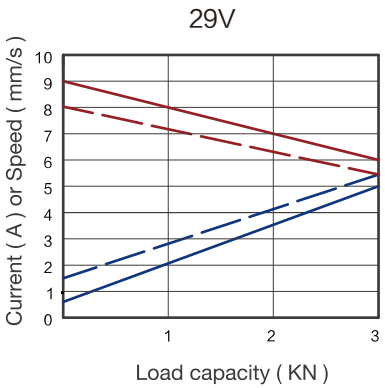
Typical speed
Min. speed
Typical current
Max. current

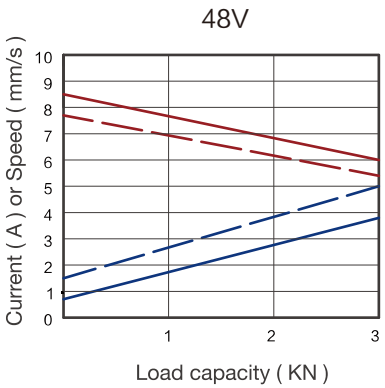
3000N







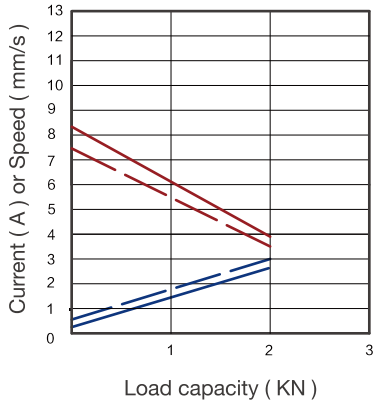




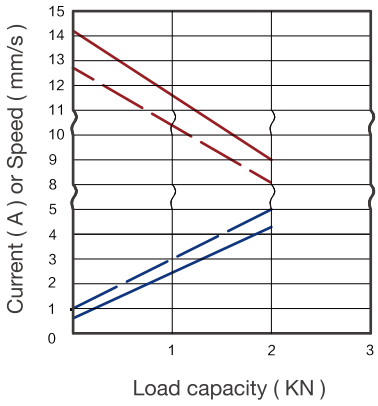
Typical speed
Min. speed
Typical current
Max. current

2000N

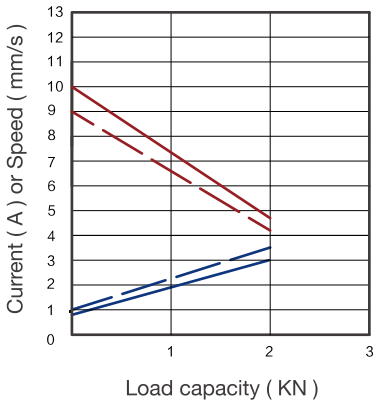
24V



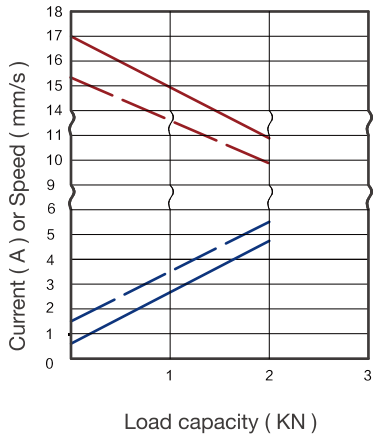
24V



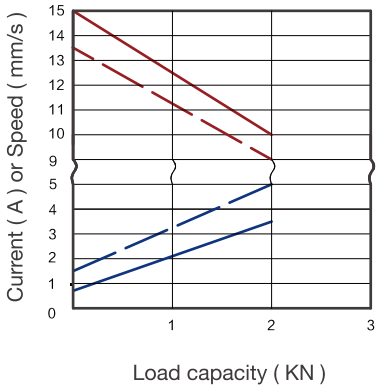
29V



29V



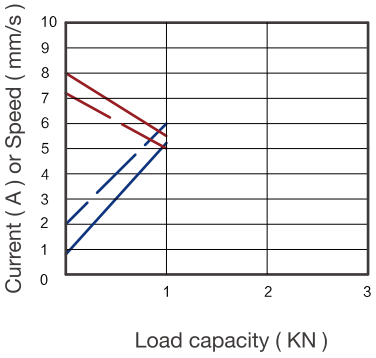
48V



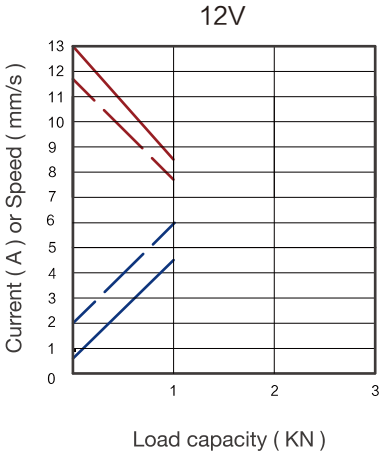
1000N

Typical speed
Min. speed
Typical current
Max. current

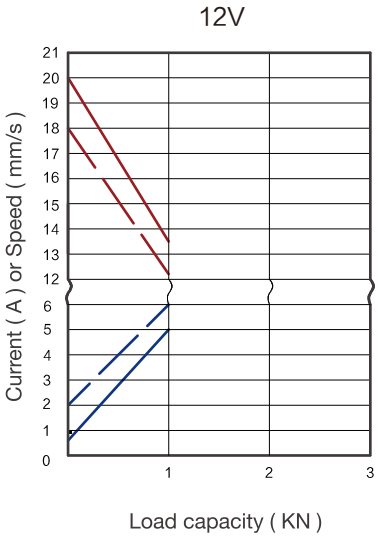
12V



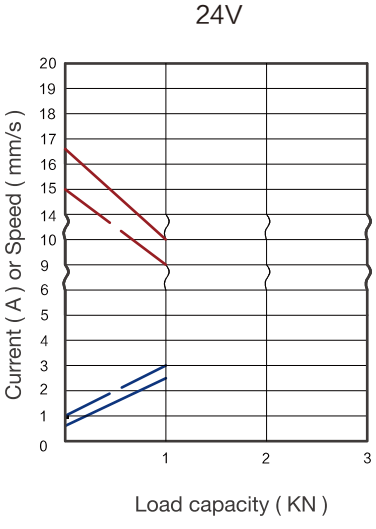
12V



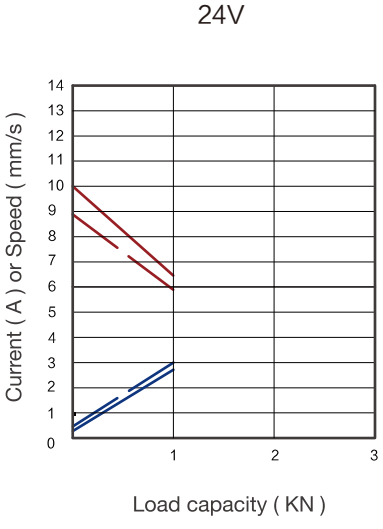
12V



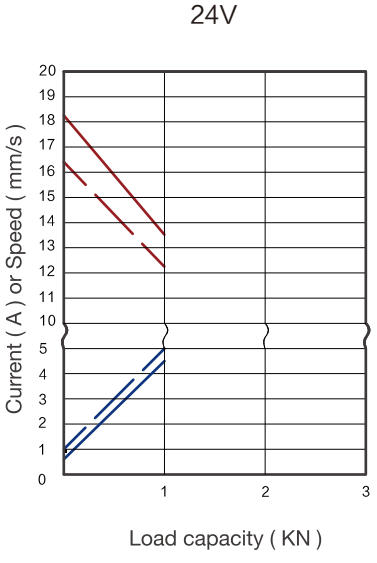
24V



24V



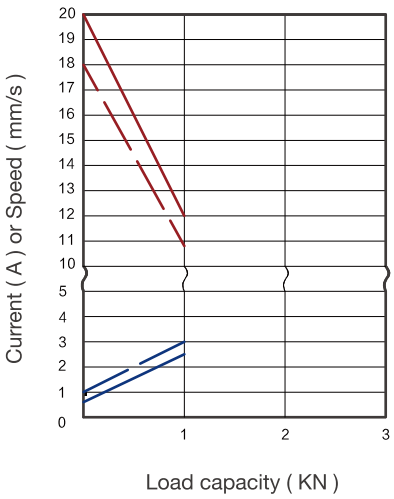
24V



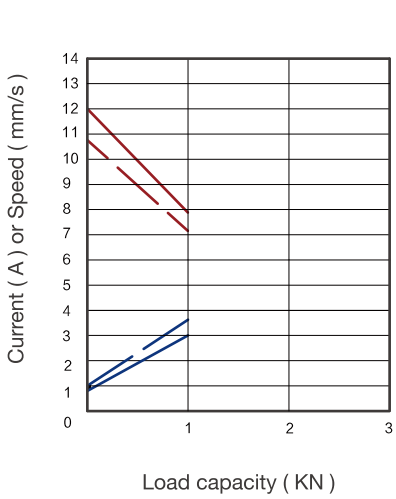
1000N

Typical speed
Min. speed
Typical current
Max. current

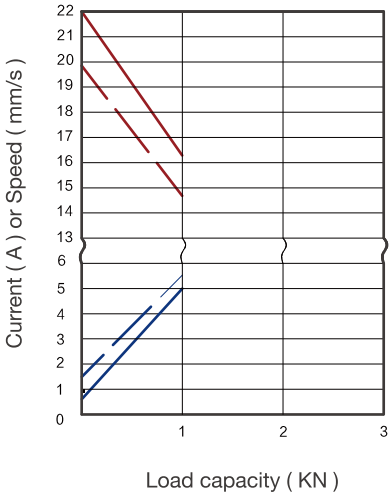
29V



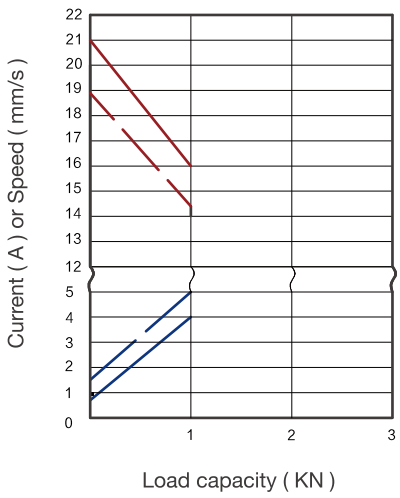
29V



29V



48V



Ordering Key

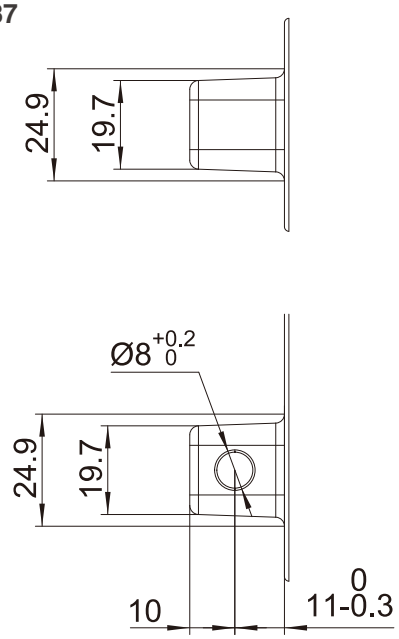
Take **JC35W2028D524300/420VG40L800020D5** as an example

Model	**JC35W2**	
Optional features	**X**	0 = Standard / Y = Hall sensor
Load in push	**X**	3 = 3000N / 2 = 2000N / 1 = 1000N
Speed at full load	**X**	5D5 = 5.5mm/s 8D5 = 8.5mm/s 13D5 = 13.5mm/s
Input voltage	**XX**	24 = 24VDC
Stroke length/ Installation dimension	**XXX/XXX**	Stroke length = xxx Installation dimension = xxx
Clevis directions	**X**	H=horizontal V=vertical (to motor direction)
Colour	**X**	G = silver gray
End clevis specification	**XX**	37 = W-type end clevis, hole diameter 8.0 40 = W-type end clevis, hole diameter 10.1
End clevis material	**X**	L = Aluminium alloy
Front clevis specification	**XX**	F47 = W-type, hole diameter of top clevis 8.0 80 = W-type, hole diameter of top clevis 10.1
Brake specification	**X**	0 = Standard, without brake
Type of connector and cable	**XX**	02 =4 Pin Din connector 10= 5 Pin Din connector
Cable length	**XXX**	2D0 = 2m / 0D5 = 0.5m

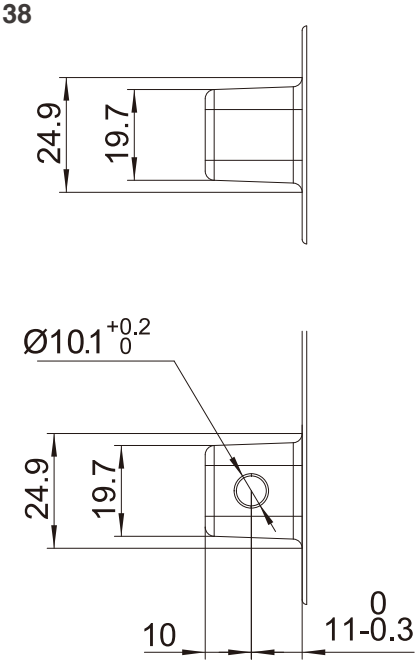
Ordering Details

Dimensions of clevis

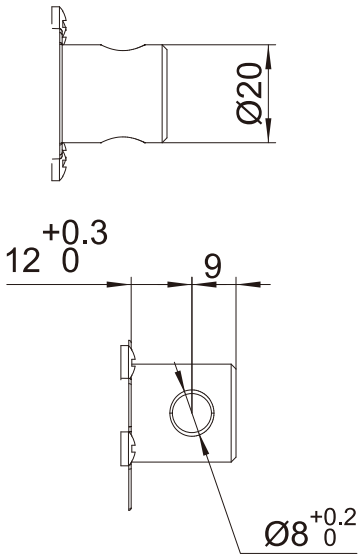
End clevis: 37



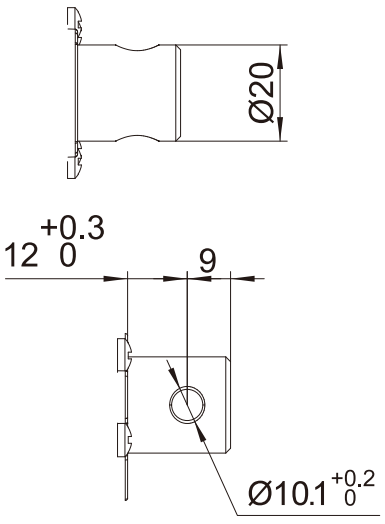
End clevis: 38



Front clevis: F47



Front clevis: 80



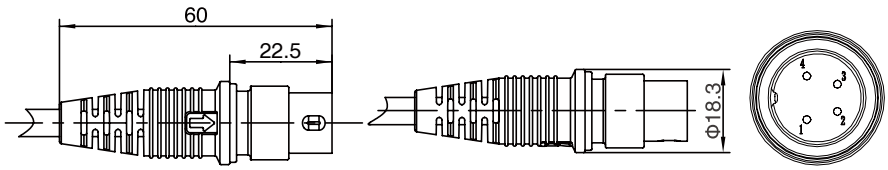
Motor cable

4 Pin Din connector (standard)

Supporting control box : JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Colour	Function
1	NC	Not connected
2	Brown	power with positive voltage, actuator going down
3	Blue	power with positive voltage, actuator going up
4	NC	Not connected
Outer Circle	NC	Not connected



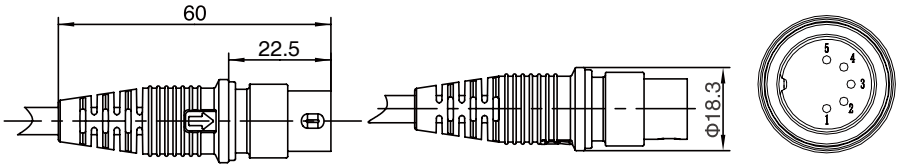


5 Pin Din connector (with Hall sensor)

Supporting control box : JCB35Q / JCB35T / JCB35R / JCB35R1 / JCB35S

Pin	Colour	Function
1	Red	5V
2	Brown	power with positive voltage, actuator going down
3	Black	GND
4	Blue	power with positive voltage, actuator going up
5	Yellow	Hall sensor signal 1
Outer Circle	Orange	Hall sensor signal 2





Strictly abiding by medical safety certifications

Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.

Communication protocol development

Aiming at different applications, develop more extensive functions for control system.

Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities

Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices

Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

Disclaimer and Exclusion of Liability

The user must determine the suitability of JIECANG products under specific conditions. JIECANG is committed to providing the latest product information. However, as JIECANG' s product are constantly improving, it is possible to make changes to JIECANG' s product without prior notice. Therefore, JIECANG cannot guarantee the correctness and authenticity of the product information. Although JIECANG will do its best to meet the order requirements, due to the above reasons, JIECANG cannot guarantee the delivery capacity of any specific product.

Therefore, JIECANG reserves the right to stop selling any products listed on the website or product catalog or other JIECANG written materials. All sales activities must be carried out in accordance with the requirements of JIECANG sales and Delivery Standard Clauses. For copies of relevant documents, please contact JIECANG.

Notes for mounting and usage can be found in the corresponding mounting manual

TECHNOLOGY
DRIVES INTELLIGENT LIFE