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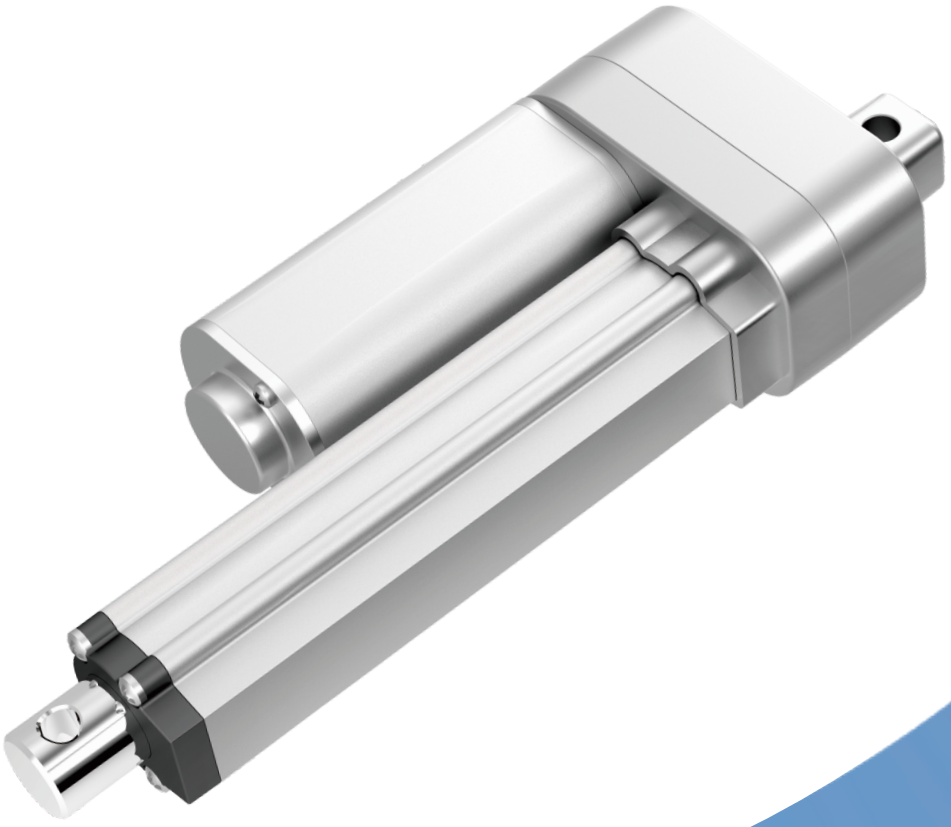
Linear Actuator JC35W2



TECHNOLOGY
DRIVES INTELLIGENT LIFE

Data sheet

Linear Actuator JC35W2

Product features

- JC35W2 is a kind of actuator with low noise, compact installation size, high speed and high IP grade(IP54).
  It has following models:
  JC35W2-3000N; JC35W2-2000N; JC35W2-1000N.
- It is suitable for medical bed, nursing bed, patient lifter, comfort bed, TV lifter, engineering machinery and other fields.

Features and options

- Load in push: 3000N, 2000N, 1000N
- Load in pull: 3000N, 2000N, 1000N
- Color: Gray RAL7035
- IP Grade: Max. IP54
- Input voltage: 24VDC
- Stroke length:
  3000N: 50-250mm(in steps of 4mm)
  2000N: 50-400mm(in steps of 4mm)
  1000N: 50-400mm(in steps of 4mm)
- Installation dimensions:
  L=170(S≤50)
  L=S+120(50＜S≤400)
- Noise level: ≤48dB, (environmental noise≤40dB)
- Hall sensor : optional
- Built-in electrical limit switch.
- Weight: About 1.7kg (different stroke length and installation dimensions with different weight)
- Static bending moment: lateral load are not allowed

Usage

- Duty cycle: 10%, max. 2min.continuous working and 18 min.off
- Operating temperature: 5~40℃
- Reserve temperature: -10~50℃
- Supporting control box: match with JIECANG JCB35K3 control box.
- Relative humidity: 20% to 90% at 30 ℃, non-condensing
- Atmospheric pressure: 700 to1060hPa

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

Technical parameters

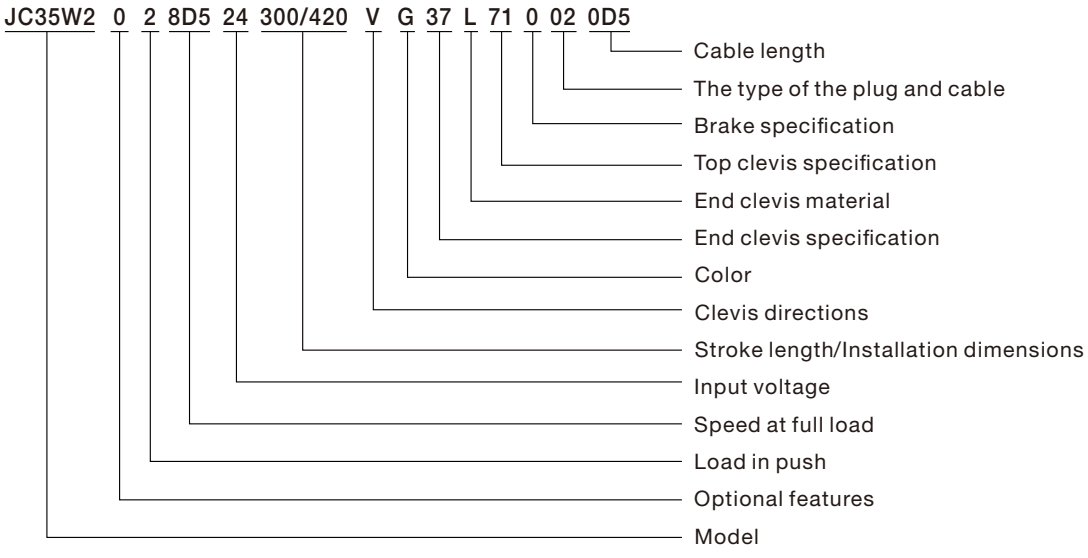
Voltage (VDC)	Spindle pitch (mm)	Max.Load capacity (N)	Self-locking (N)	Speed at full load (mm/s)	Speed at No load (mm/s)	Current at full load (A)
24	4	3000	3000	8	5. 5	5
24	7. 5	2000	1500	14	10	5
24	10	1000	600	20	13. 5	5
29	4	3000	3000	9. 5	7. 5	5
29	7. 5	2000	1500	17. 5	13	5
29	10	1000	600	23	16	5
36	4	3000	3000	13	9	5
36	7.5	2000	1500	20	16	5
36	10	1000	600	28. 5	20. 5	5

Remark: the above data are typical values at 25℃

Ordering Key

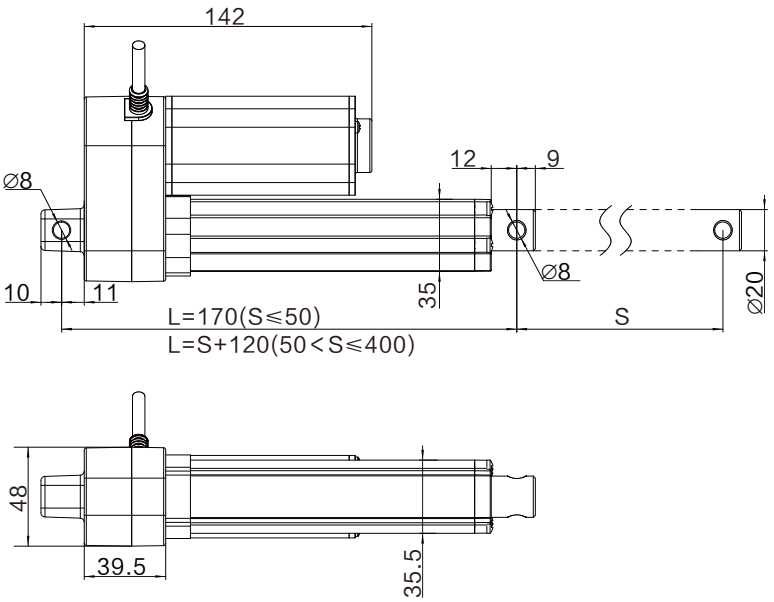
Model	JC35W2	
Optional features	X	0=Standard Y= Hall sensor
Load in push	X	3=3000N 2=2000N 1=1000N
Speed at full load	X	5D5=5.5mm/s 8D5=8.5mm/s 13D5=13.5mm/s
Input voltage	24	24=24VDC
Stroke length/Installation dimensions	XXX/XXX	Stroke length=XXX Installation dimensions =XXX
Clevis directions	X	H=H direction V=V direction
Color	X	G=Gray(RAL7035)
End clevis specification	XX	37=W-type end clevis, hole diameter 8.0 38=W-type end clevis, hole diameter 6.5
End clevis material	L	L=Aluminium alloy
Top clevis specification	XX	71=W-type, hole diameter of top clevis 8.0 74=W-type, hole diameter of top clevis 6.5
Brake specification	0	0=No brake
The type of the plug and cable	XX	02=4-pin DIN plug 10=5-pin DIN plug 21=6 pin Mini-Fit elbow plug
Cable length	XXX	2D0=2m 0D5=0.5m

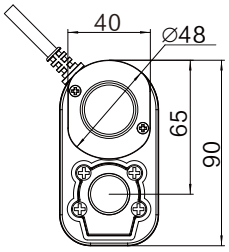
Naming regulation



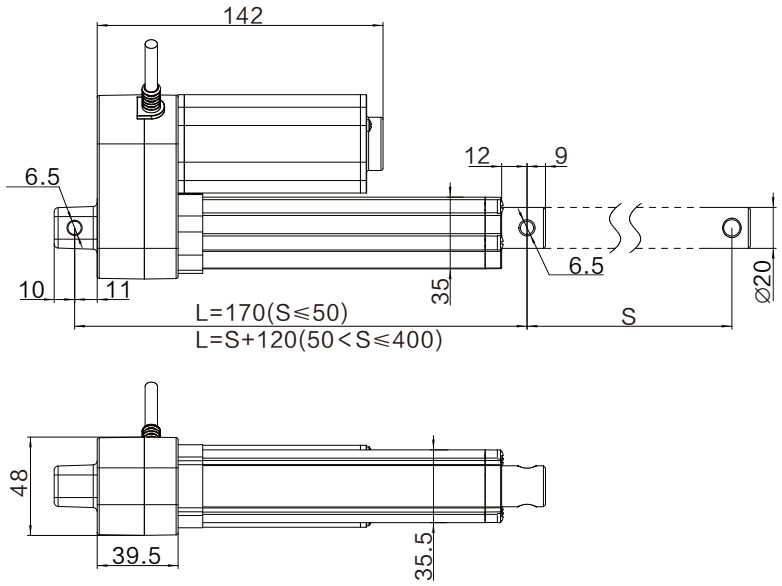
Dimension drawing

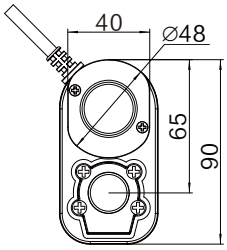
Top clevis 71, end clevis 37





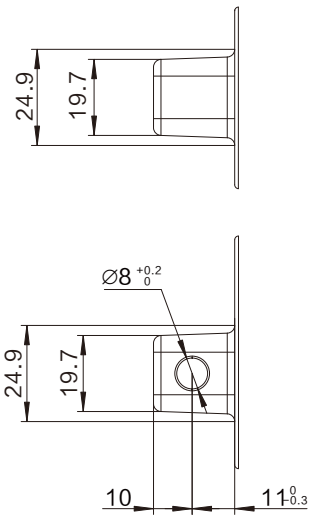
Top clevis 74, end clevis 38



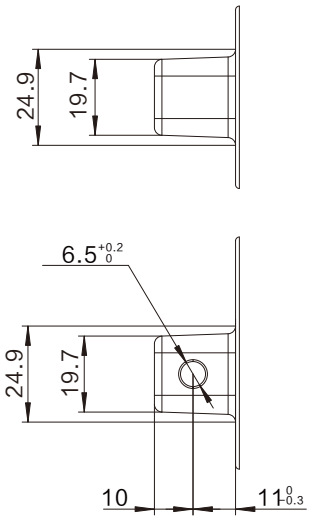


Dimension drawing of clevis

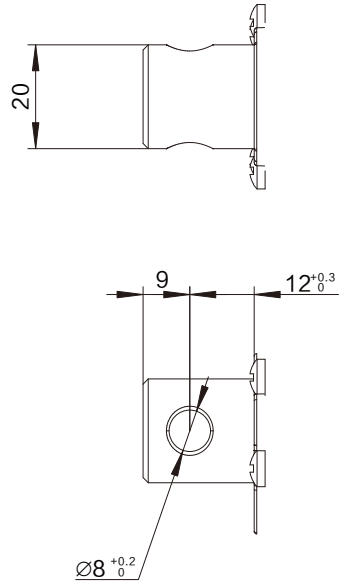
End clevis: 37



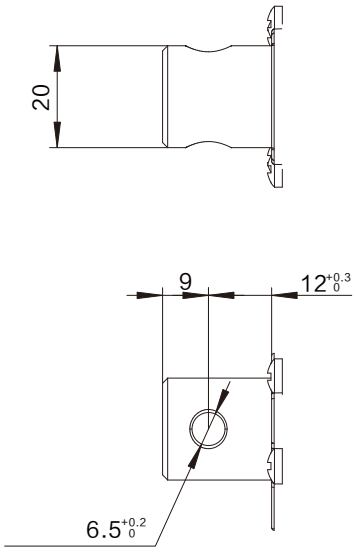
End clevis: 38



Top clevis: 71



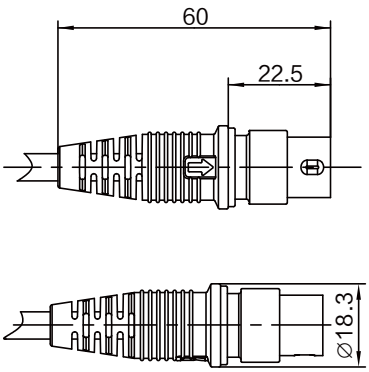
Top clevis: 74

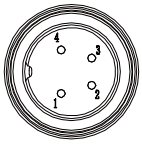


Motor wire

4-pin straight plug (standard)

Matching controller: JCB35Q/ JCB35T/ JCB35R/ JCB35R1/ JCB35S/ JCB35K2

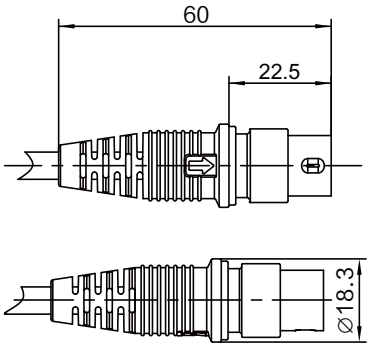


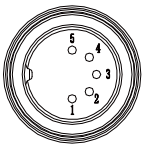


4 Pin DIN plug(Normal)		
Pin	Color	Function
1	NC	Not connected
2	Brown	When positive voltage power on,actuator will go down
3	Blue	When positive voltage power on,actuator will go up
4	NC	Not connected
Outer ring	NC	Not connected

5 pin DIN plug (with Hall sensor)

Matching controller: JCB35Q/ JCB35T/ JCB35R/ JCB35R1/ JCB35S/ JCB35K2

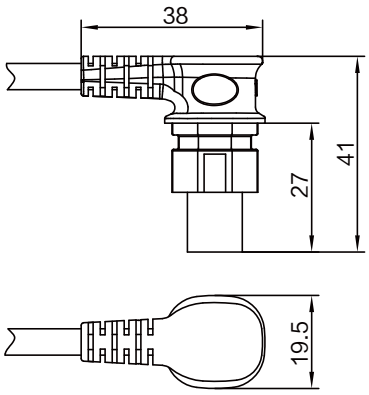


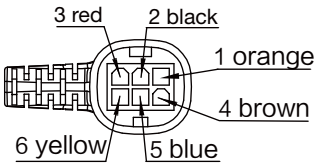


5 Pin DIN plug(Dual hall sensor)		
Pin	Color	Function
1	Red	5V
2	Brown	When positive voltage power on,actuator will go down
3	Black	GND
4	Blue	When positive voltage power on,actuator will go up
5	Yellow	Hall signal 1
Outer ring	Orange	Hall signal 2

6 Pin Mini-Fit elbow plug

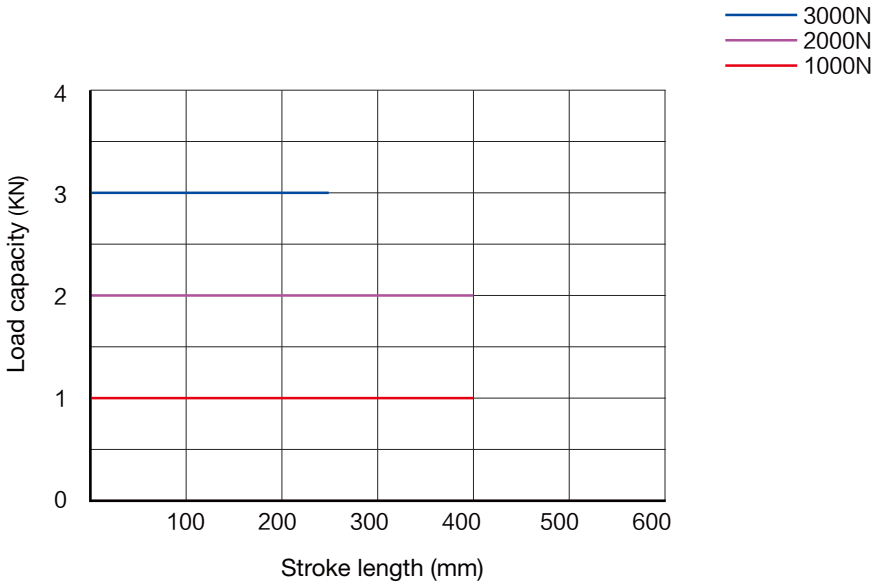
Matching control box :JCB35T2/JCB35T3/JCB35Q3/JCB35K3





6 Pin Mini-Fit elbow plug(Signal switch)		
Pin	Color	Function
1	Orange	When not on lower limit, link with red wire
2	Black	When not on upper limit, link with yellow wire
3	Red	When not on lower limit, link with orange wire
4	Brown	When positive voltage power on,actuator will go down
5	Blue	When positive voltage power on,actuator will go up
6	Yellow	When not on upper limit, link with black wire

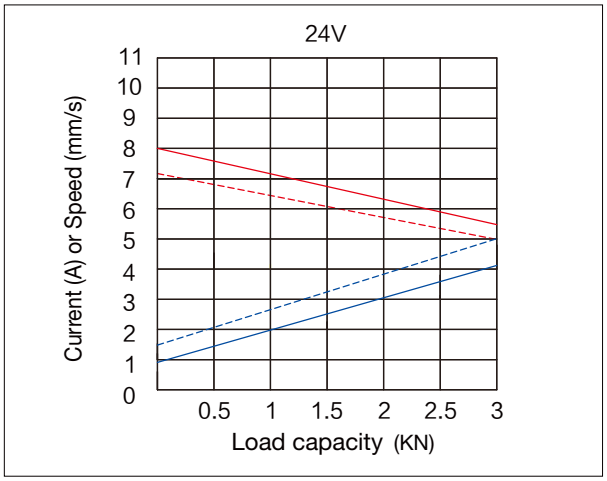
Diagram of relationship between stoke length and load

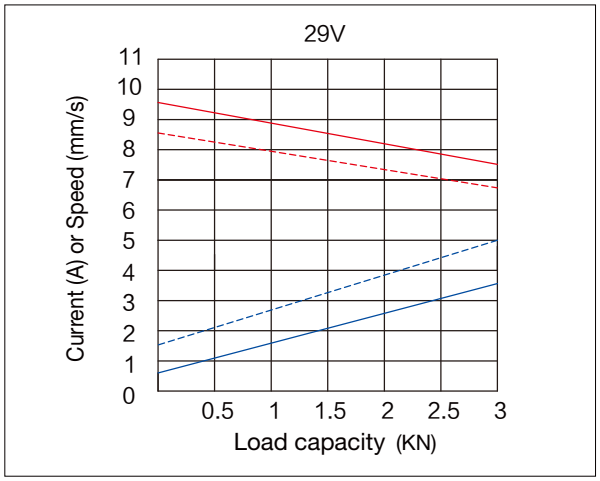


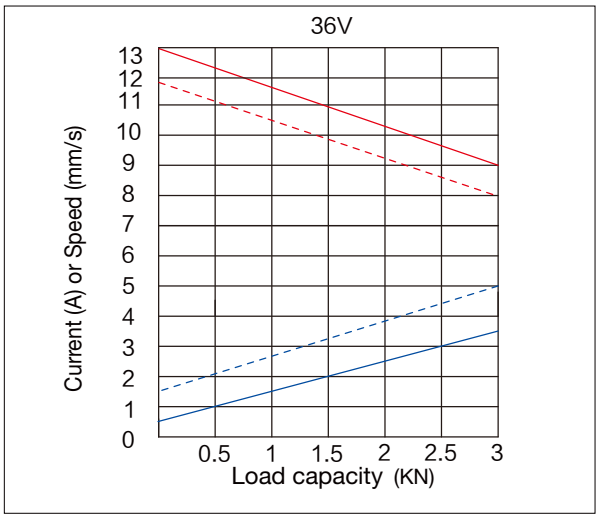
Characteristic curve

Typical speed
Min. speed
Typical speed
Max. current

The diagram of relationship between current, speed and load of JC35W2-3000N

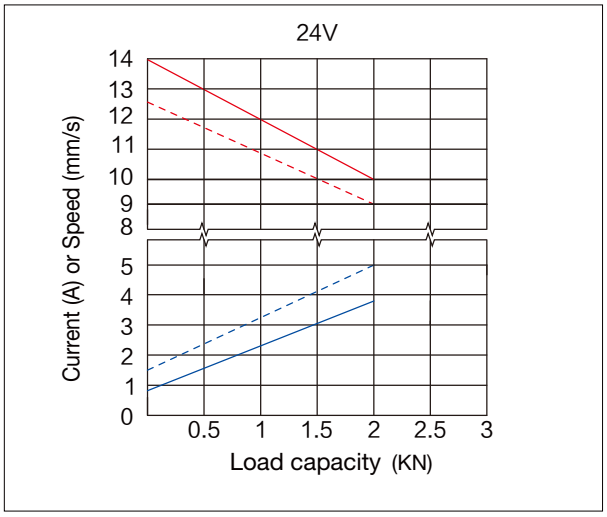


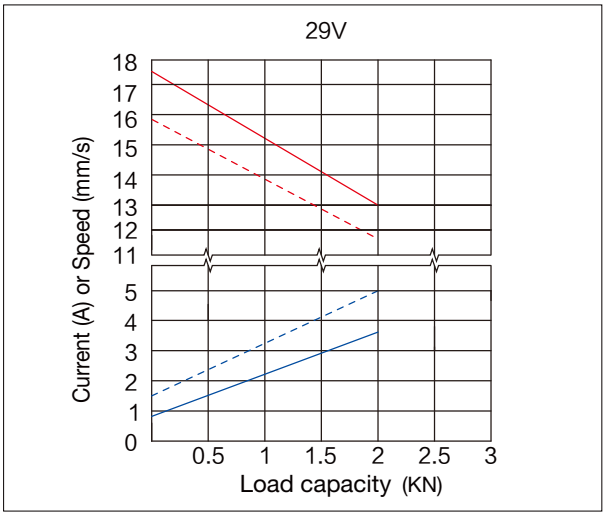


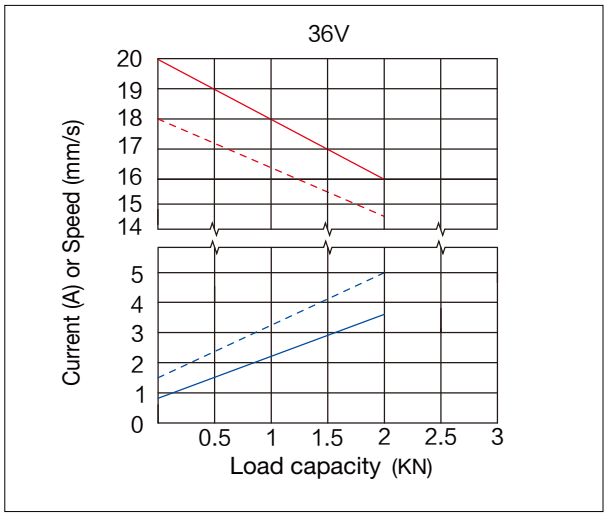


Typical speed
Min. speed
Typical speed
Max. current

The diagram of relationship between current, speed and load of JC35W2-2000N







Typical speed
Min. speed
Typical speed
Max. current

The diagram of relationship between current, speed and load of JC35W2-1000N