

Linear Actuator JC35W8



Data sheet

Linear Actuator JC35W8

- JC35W8 is an actuator with low noise level, compact structure and small sizes. It has below models of JC35W8-1000N; JC35W8-750N; JC35W8-500N; JC35W8-250N; JC35W8-125N; JC35W8-70N. JC35W8 is characterized by low noise level, fast speed as well excellent water-proof performances of IPX6.
- It can be widely used in vent system, awning, harvesters, automatic equipment as well engineering machinery.



Features and options

- Load in push: 1000N, 750N, 500N, 250N, 125N, 70N
- Load in pull: 1000N, 750N, 500N, 250N, 125N, 70N
- Color: grey
- Max.IP grade: IPX6
- Motor: 12VDC, 24VDC
- Stroke:
 - Common: 25-1020mm (in steps of 4mm)
 - With dual hall sensor: 25-1020mm (in steps of 4mm)
- With potentiometer:
 - 1000N: 25-520mm (in steps of 4mm)
 - 750N: 25-800mm (in steps of 4mm)
 - ≤500N: 25-1000mm (in steps of 4mm)
- Noise level ≤55dB(ambient noise level≤40dB)
- Installation dimension
 - Common version and Hall version
 - $L=S+105$ ($25 \leq S \leq 610$)
 - $L=S+120$ ($610 < S \leq 765$)
 - $L=S+140$ ($765 < S \leq 1020$)
 - Potentiometer version
 - $L=S+140$ ($25 \leq S \leq 610$)
 - $L=S+155$ ($610 < S \leq 765$)
 - $L=S+175$ ($765 < S \leq 1000$)
- Hall sensor: optional
- With potentiometer: optional
- Built-in limit switch
- Weight: 1.5kg (differences in stroke/installation dimension)
- Static bending moment: no lateral load
- Retardant grade: UL94 HB

Usage

- Duty cycle: 10%; continuous use of 2 minutes with a pause of 18 minutes
- Operating temperature: 5°C to 40°C
- Reserve temperature: -10°C to 50°C
- Supporting control box: all JIECANG standard control box
- Relative humidity: 20% to 80% (non-condensing)
- Atmospheric pressure: 700 to 1060hPa

Approval

- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019
- ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012

Technical Data

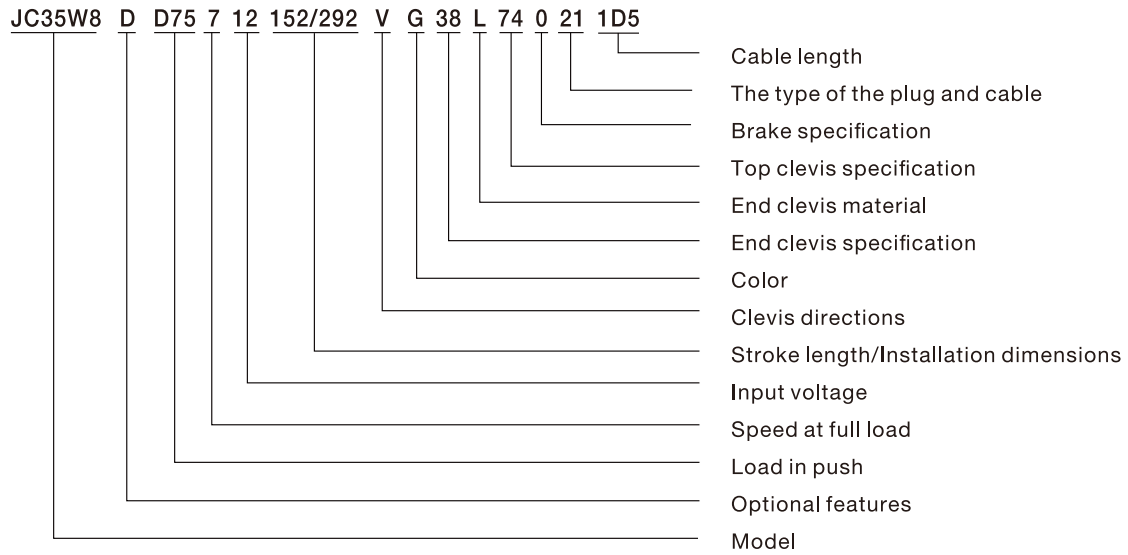
Voltage (VDC)	Spindle pitch (mm)	Max. Load (N)	Static Load (N)	Speed at 0/ full load (mm/s)	Current at full load (A)
12	2	1000	1000	7/3	3.5
12	3	750	750	10/7	3.5
12	5	500	500	22/15	3.5
12	7.5	250	250	35/20	3.5
12	10	130	130	50/35	3.5
12	20	70	70	90/55	3.5
24	2	1000	1000	7/3	2.0
24	3	750	750	10/7	2.0
24	5	500	500	22/15	2.0
24	7.5	250	250	35/20	2.0
24	10	130	130	50/35	2.0
24	20	70	70	90/55	2.0

Remark: please note the above data are average values at 25 °C

Ordering Key

Model	JC35W8	
Optional features	X	0=standard Y=hall sensor D=potentiometer
Load in push	X	1=1000N D75=750N D5=500N D25=250N D13=130N D07=70N
Speed at full load	X	3=3mm/s 7=7mm/s 15=15mm/s 20=20mm/s 35=35mm/s 55=55mm/s
Input voltage	XX	12=12VDC 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=Grey
End clevis specification	X	37=hole 8.0 without slot 38=hole 6.5 without slot (can be customized)
End clevis material	X	L=Aluminum alloy
Top clevis specification	XX	71=hole 8.0 without slot 74=hole 6,5 without slot
Brake specification	X	0=without
The type of the plug and cable	XX	02=4-pin DIN plug 10=5 pin DIN plug 93=6 pin ET plug
Cable length	XXX	2D0=2m 1D5=1.5m 0D5=0.5m

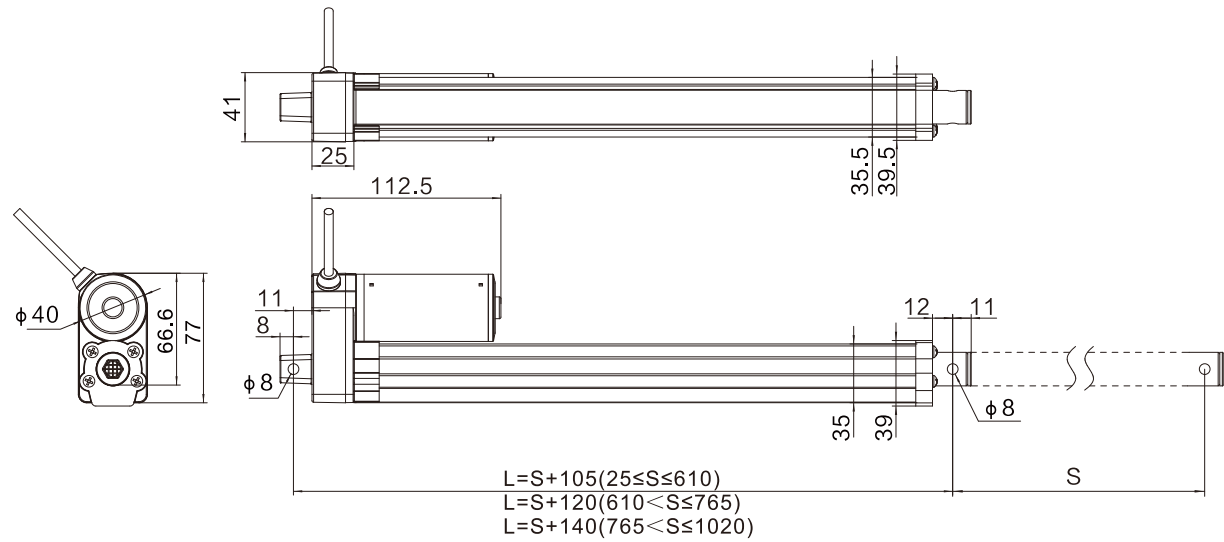
Naming regulation



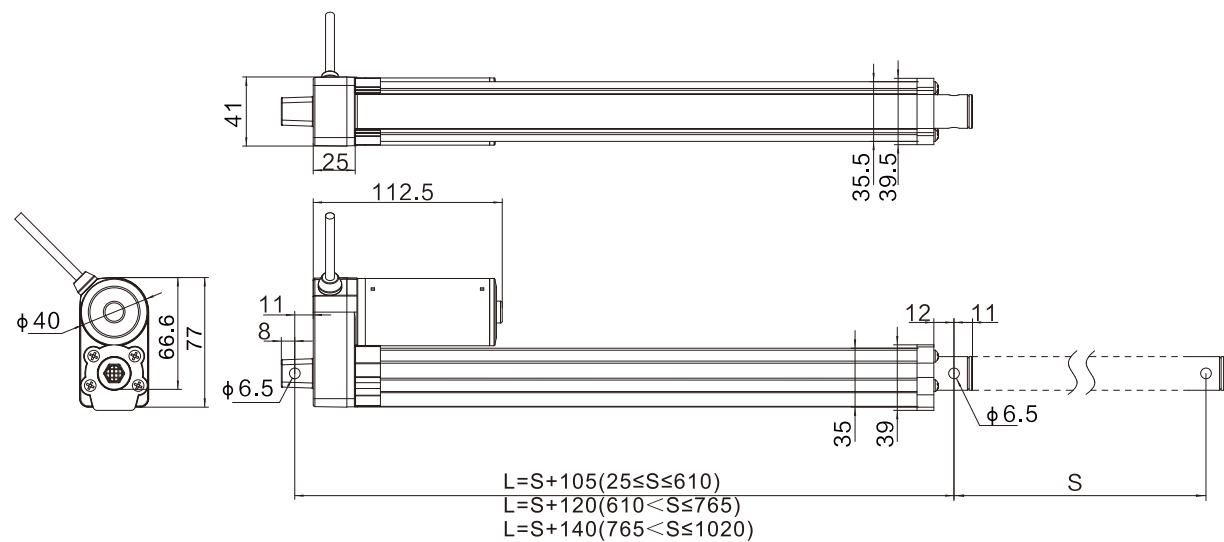
Dimension drawing

Common version and Hall version

Top clevis 71, end clevis 37

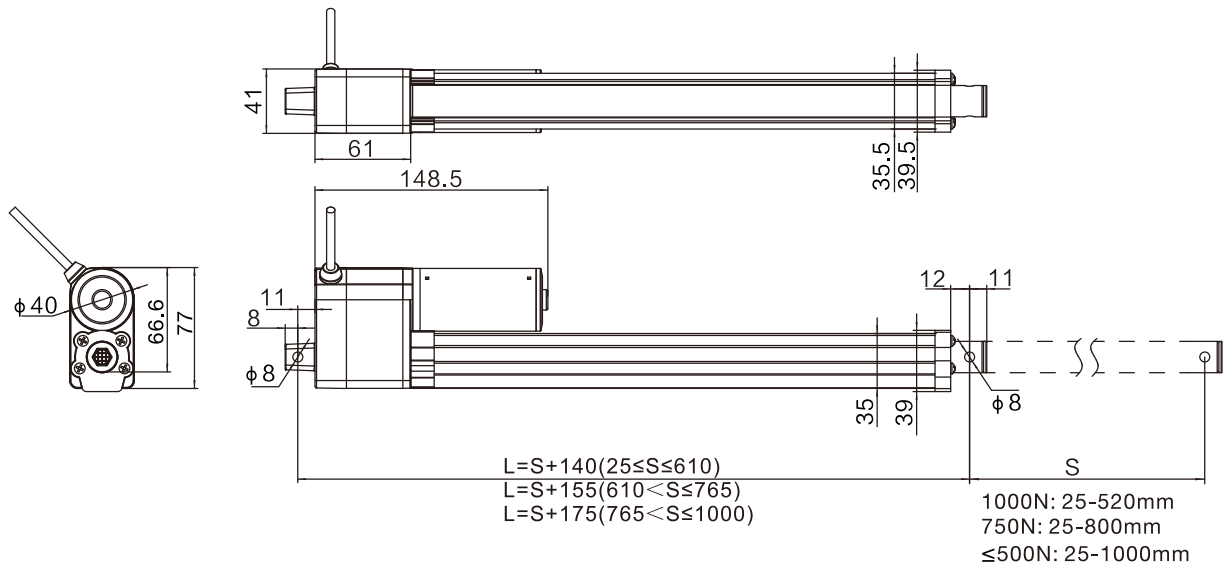


Top clevis 74, end clevis 38

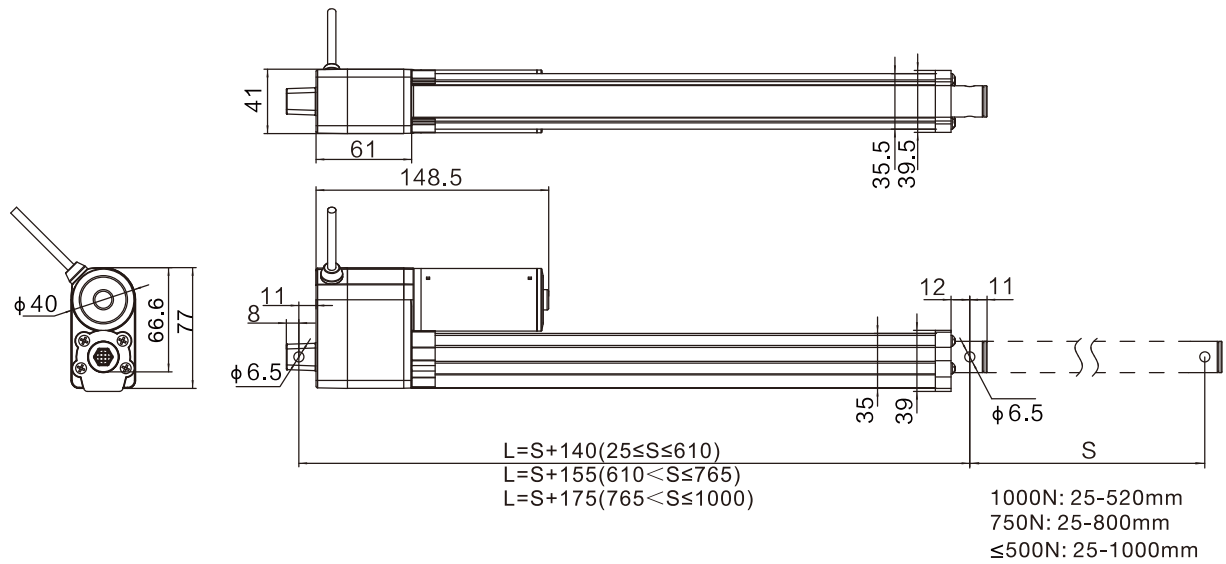


Potentiometer version

Top clevis 71, end clevis 37

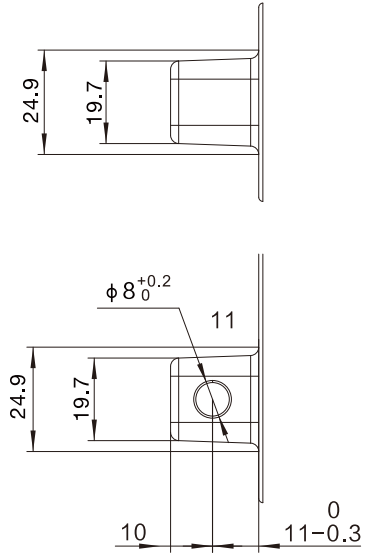


Top clevis 74, end clevis 38

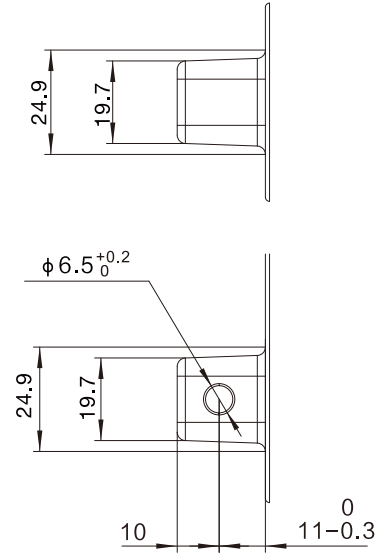


Clevis specifications

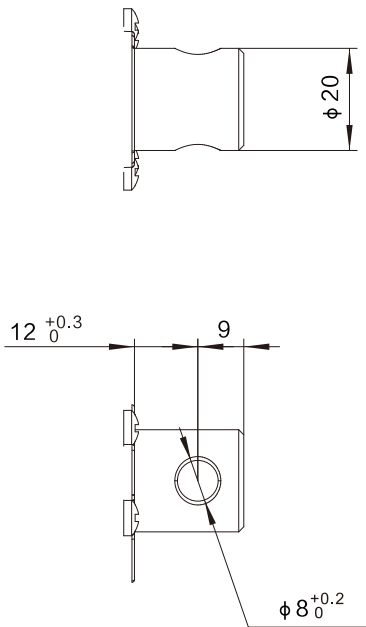
End clevis 37



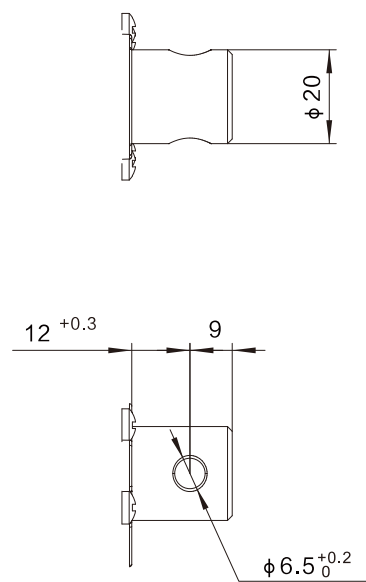
End clevis 38



Top clevis 71



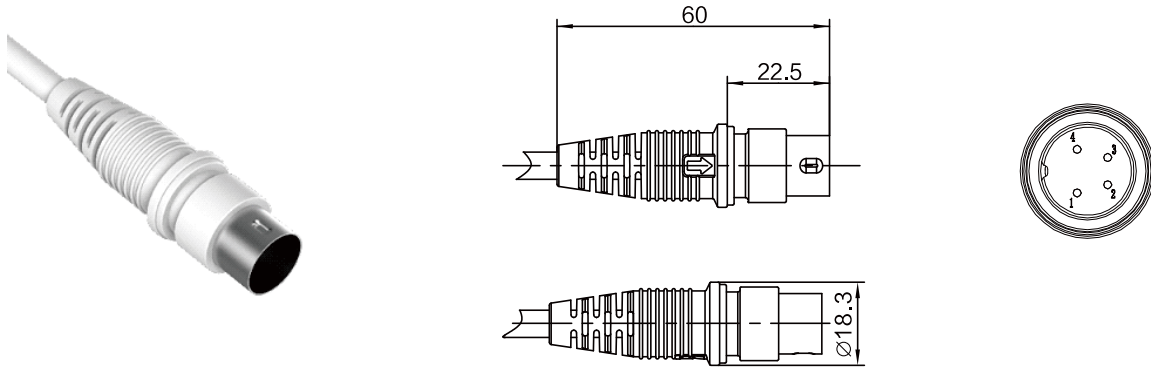
Top clevis F09



Motor cable: 4 pin DIN plug(standard)
 5 pin DIN plug (with hall sensor)
 6 pin Molex elbow plug (with signal switch)

1=4 pin DIN plug

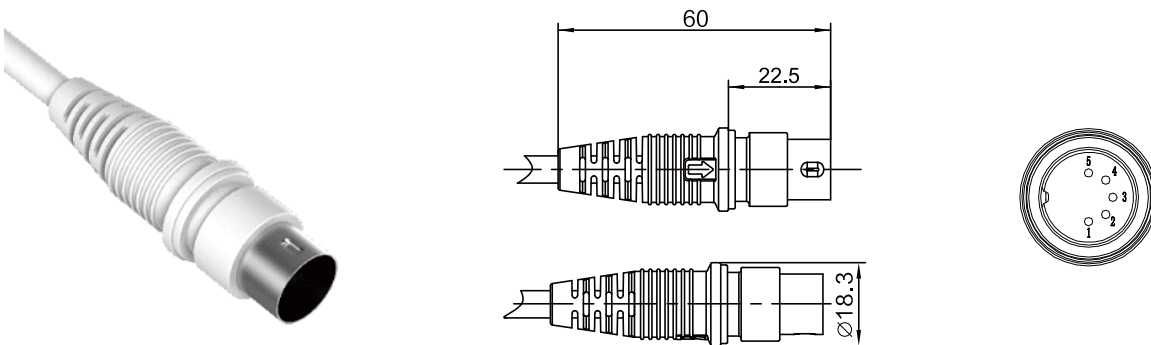
Supporting control boxes: JCB35Q/ JCB35T/ JCB35R/ JCB35R1/ JCB35S/ JCB35K2



4 Pin DIN plug(Normal)		
Pin	Color	Function
1	NC	Not connected
2	Brown	powered with +, actuator going down
3	Blue	powered with +, actuator going up
4	NC	Not connected
Outer ring	NC	Not connected

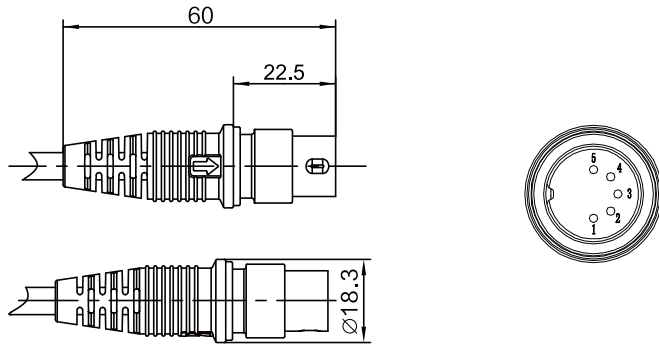
2= 5 pin DIN plug

Supporting control boxes: 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

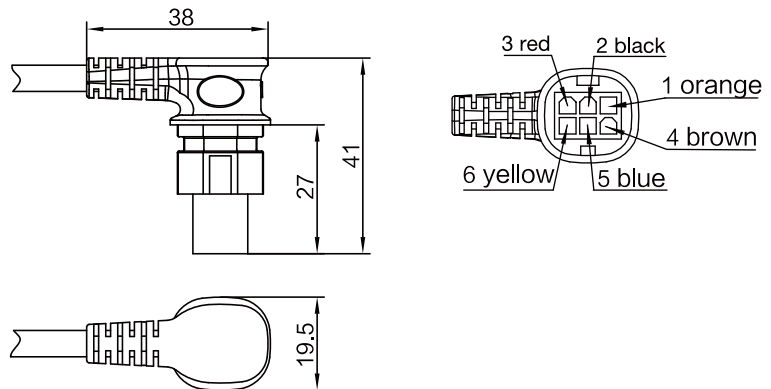
3= 5 pin DIN plug



5 pin DIN plug(actuators with potentiometer)		
Pin	Color	Function
1	Red	0Ω
2	Brown	powered with +, actuator going down
3	Black	GND
4	Blue	powered with +, actuator going up
5	Yellow	10,000Ω

4= 6 pin Molex elbow

Supporting control boxes: 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 stroke length and load

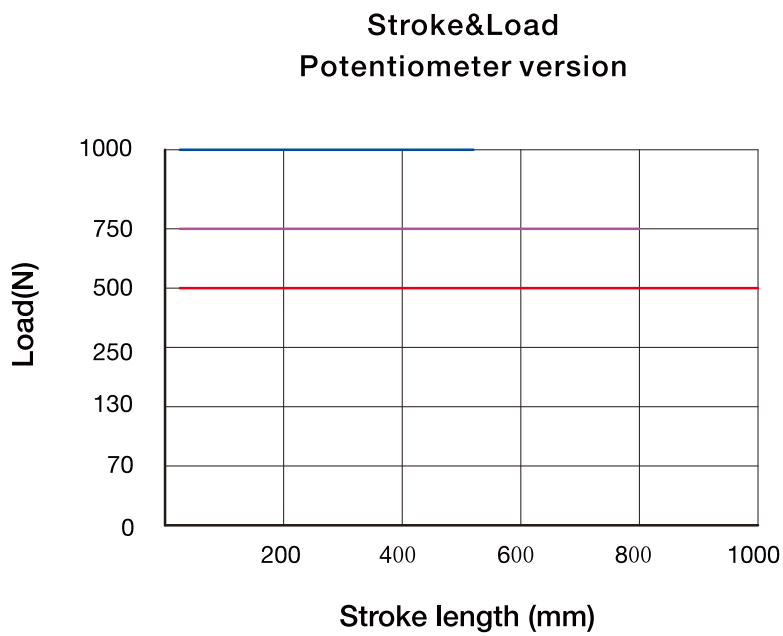
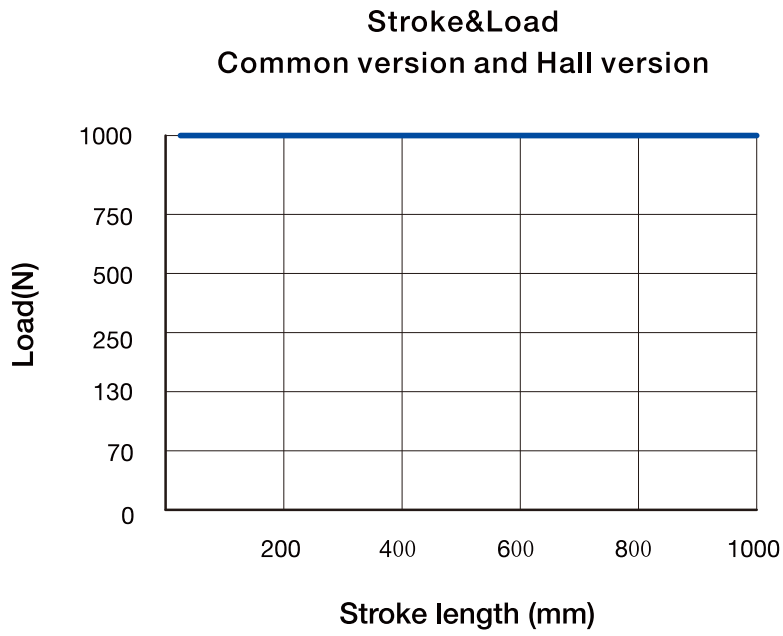
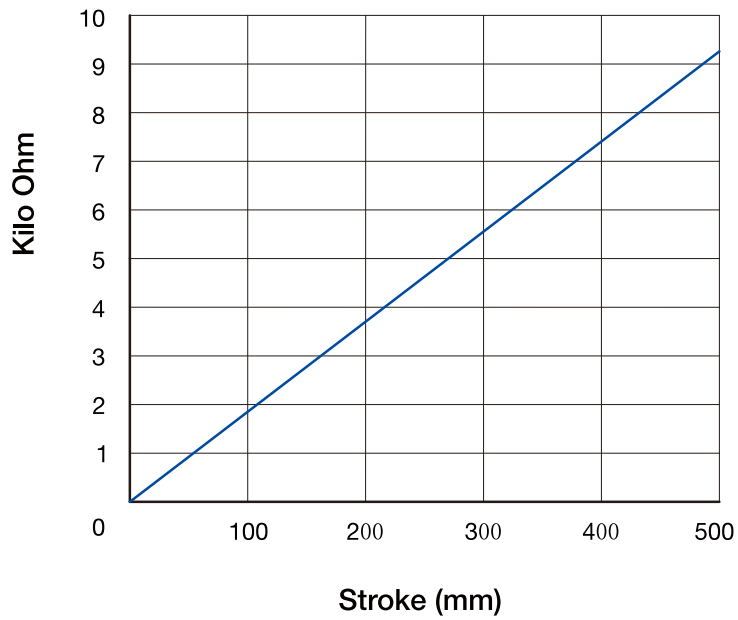


Diagram of relationship between stroke length and potentiometer resistance

JC35W8-1000N



JC35W8-750N

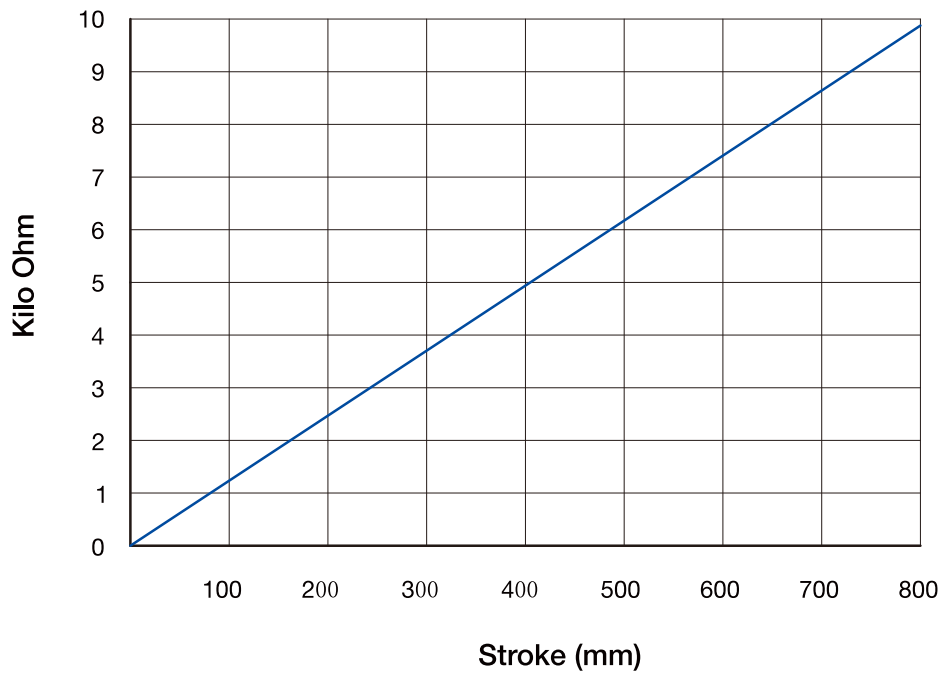
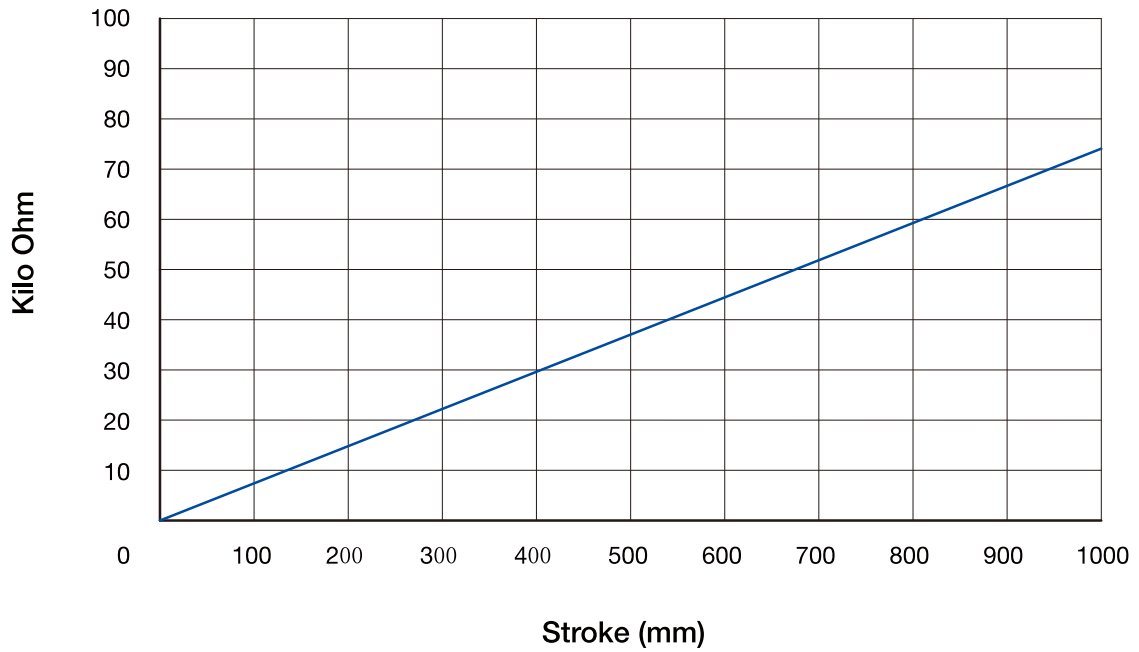


Diagram of relationship between stroke length and potentiometer resistance

JC35W8-500N



JC35W8-250N

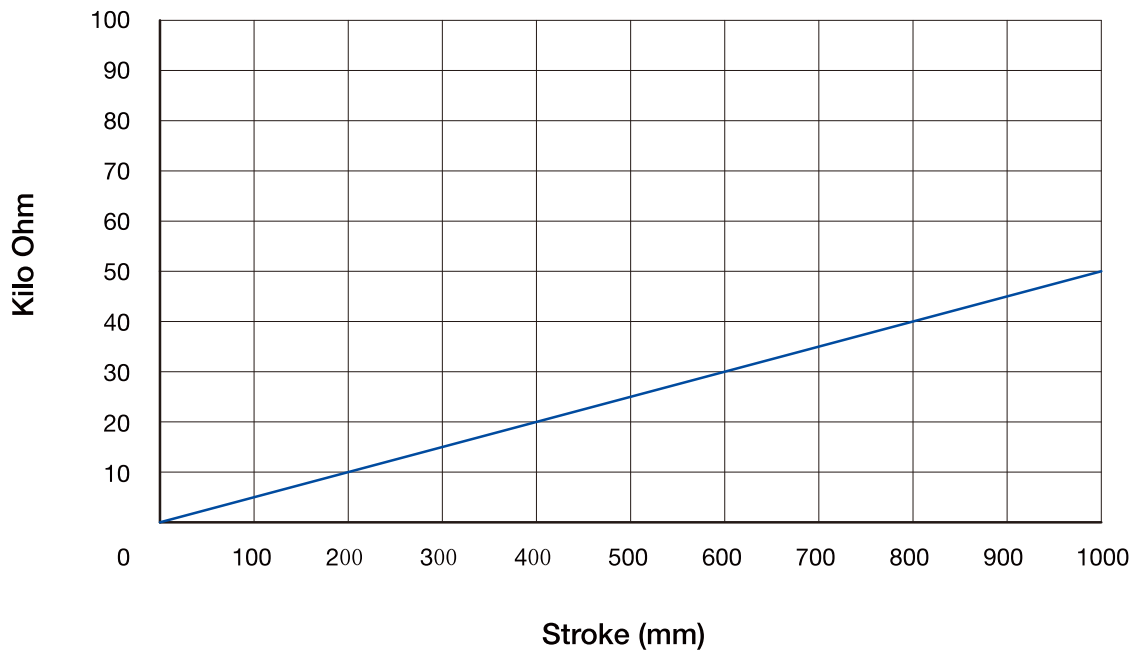
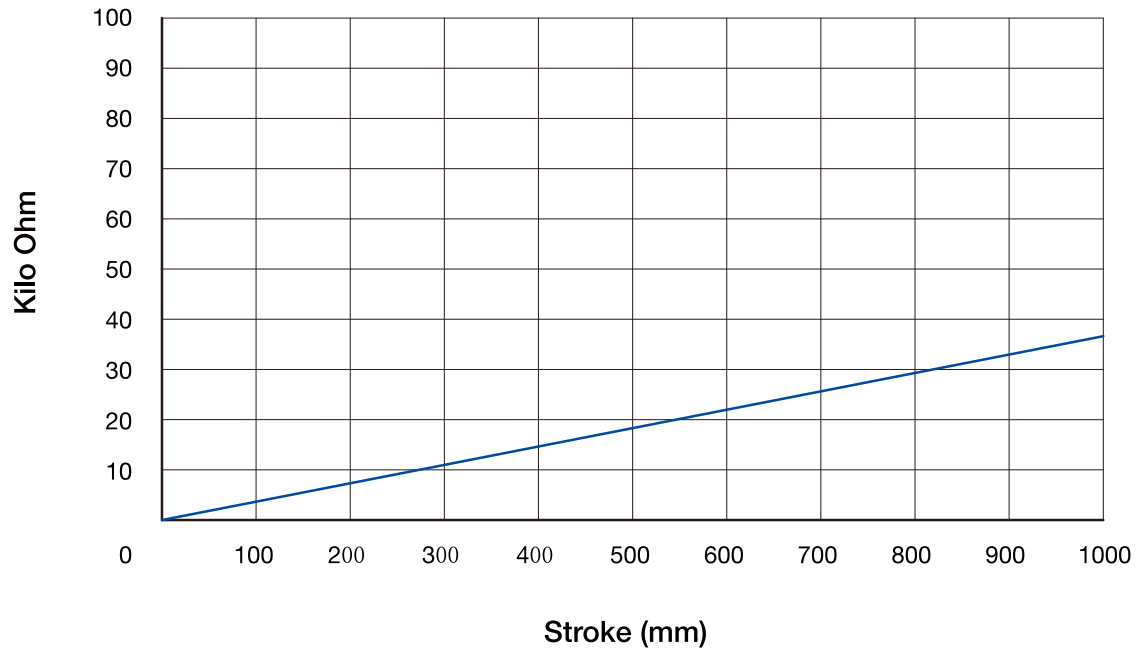
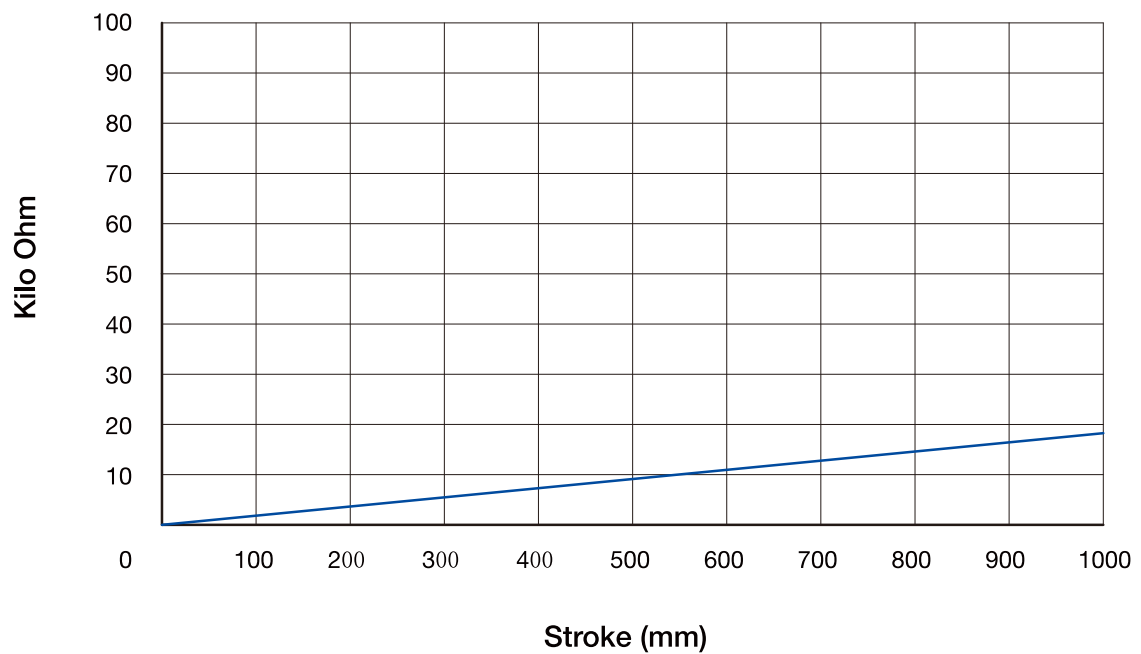


Diagram of relationship between stroke length and potentiometer resistance

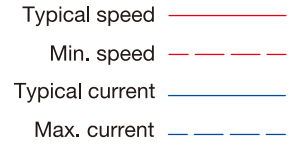
JC35W8-125N



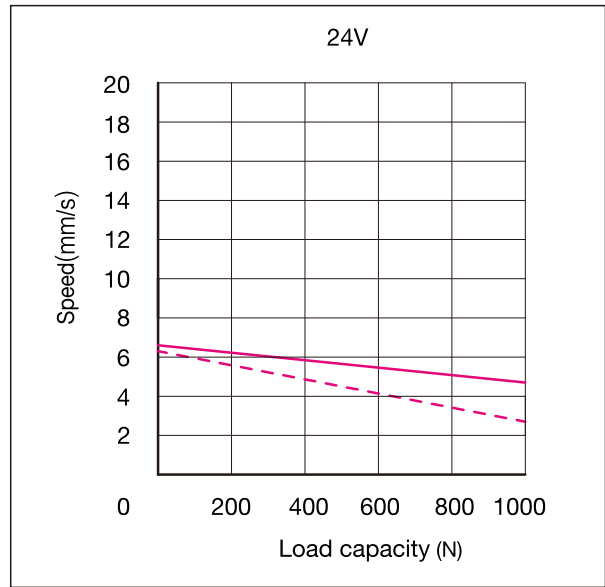
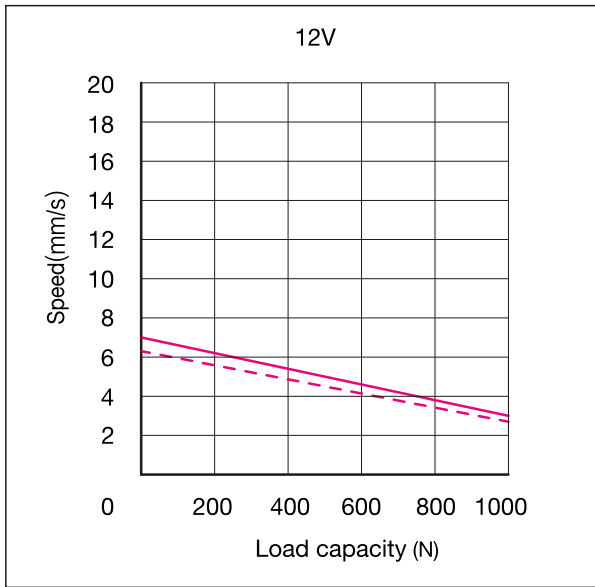
JC35W8-70N



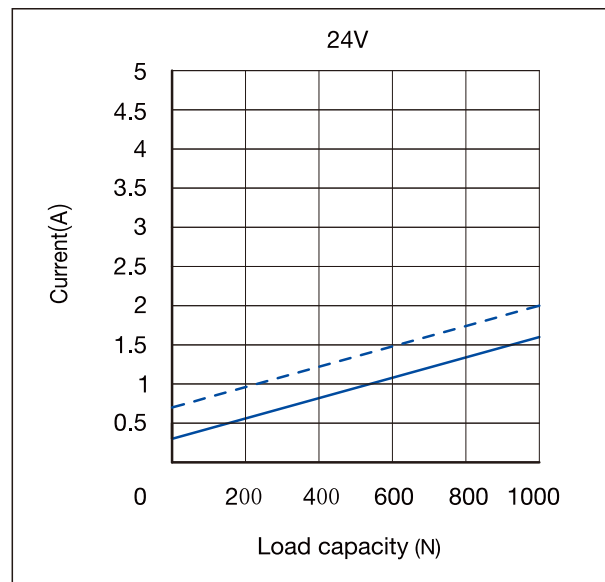
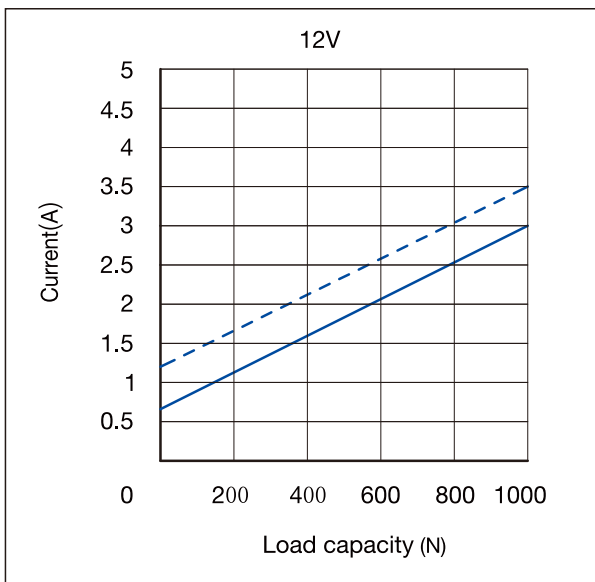
Characteristic curve



1000N Speed VS Load



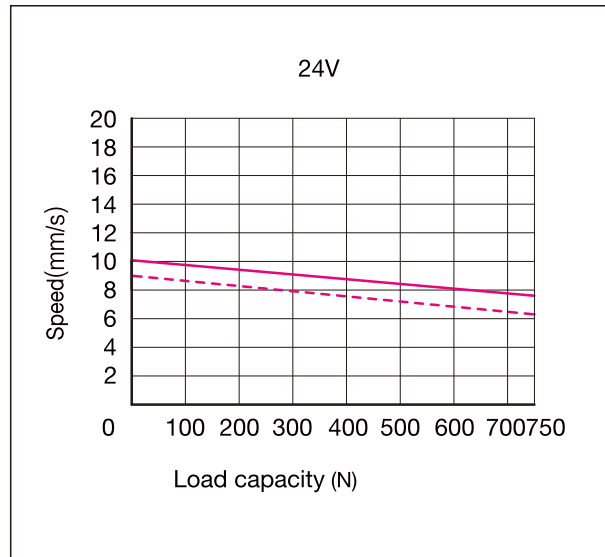
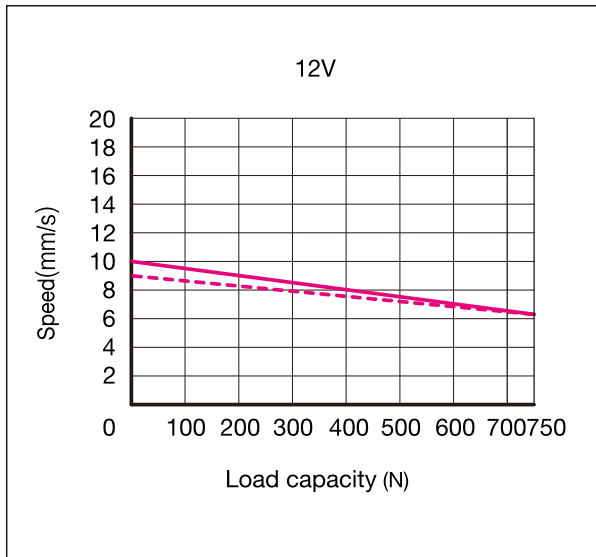
1000N Current VS Load



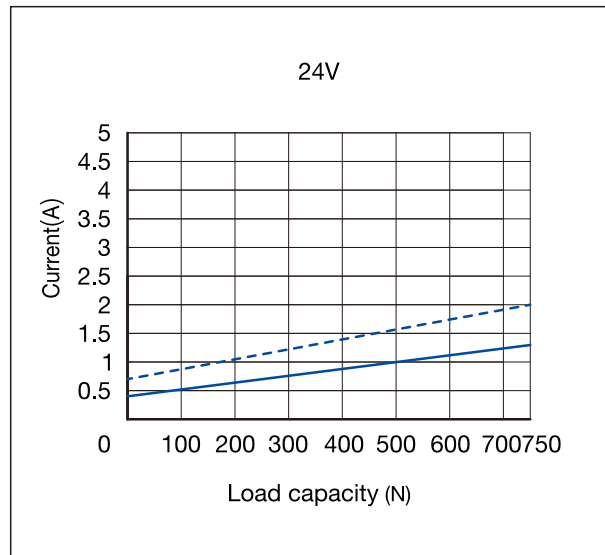
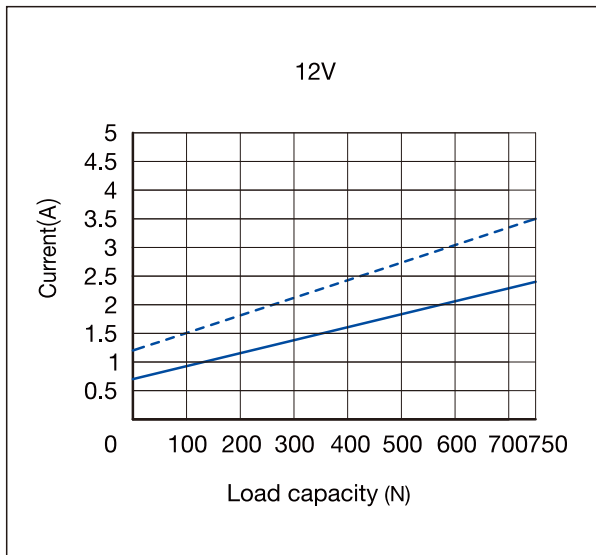
Characteristic curve

Typical speed ————
 Min. speed - - - - -
 Typical current ————
 Max. current - - - - -

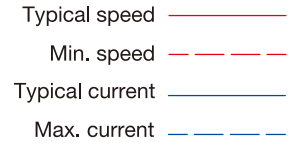
750N Speed VS Load



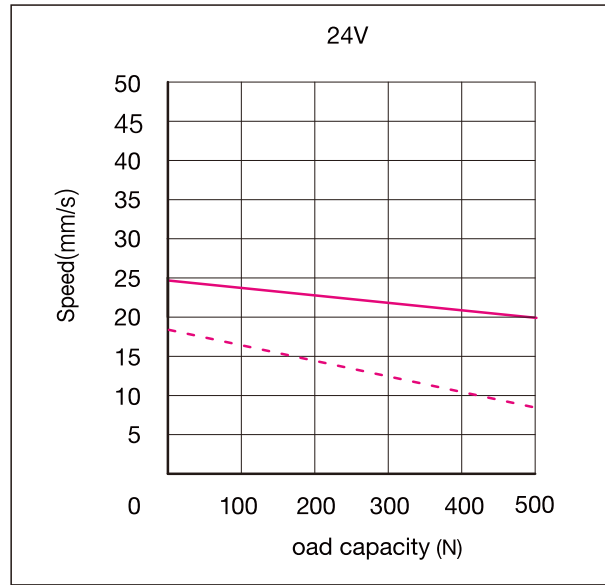
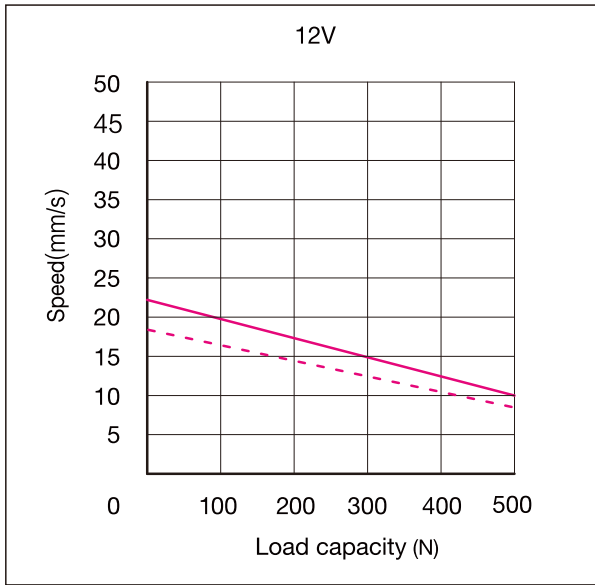
750N Current VS Load



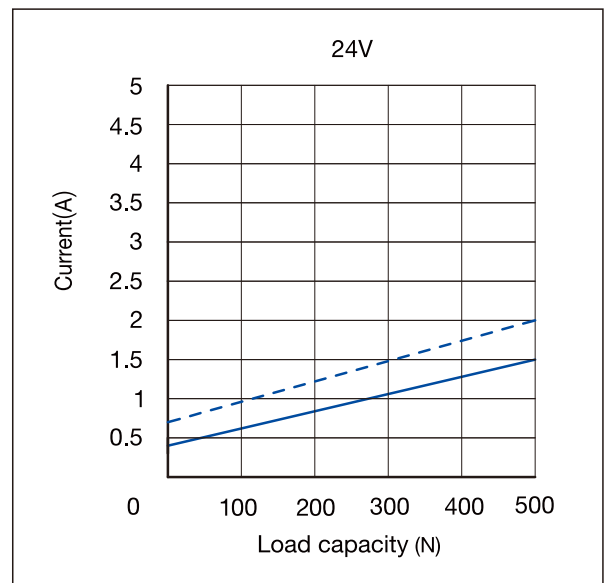
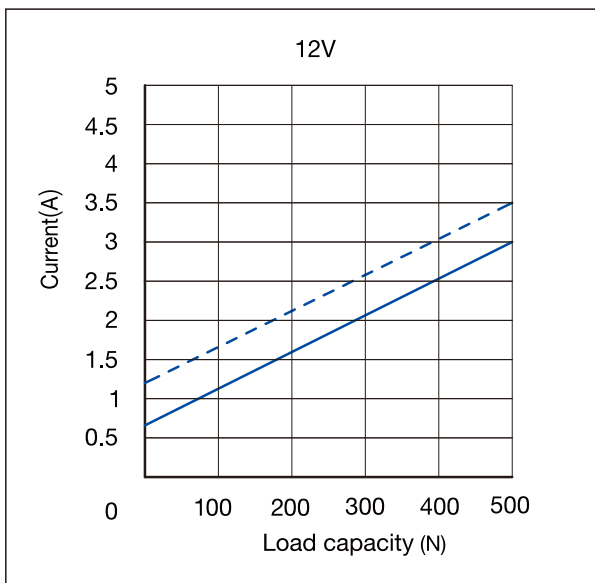
Characteristic curve



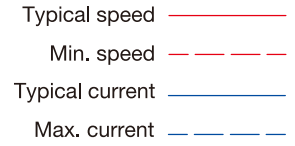
500N Speed VS Load



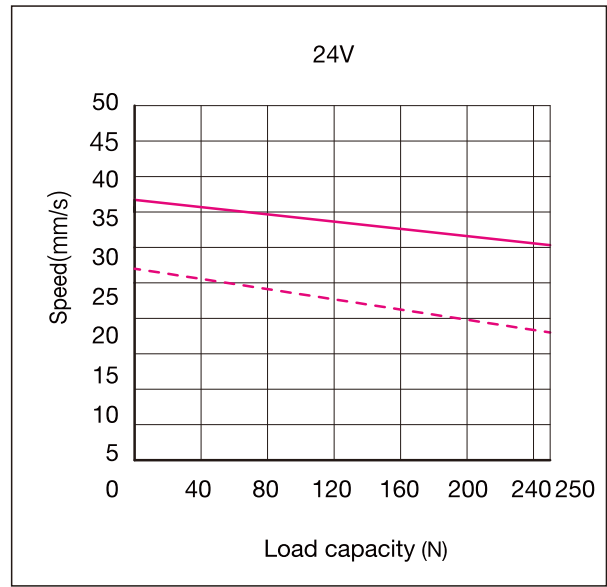
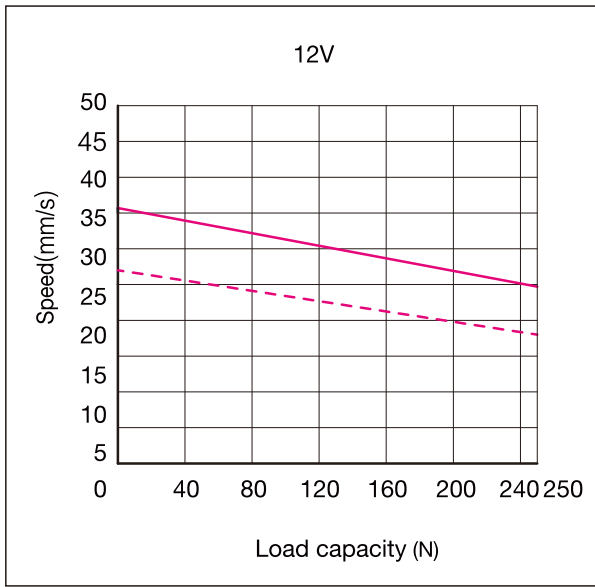
500N Current VS Load



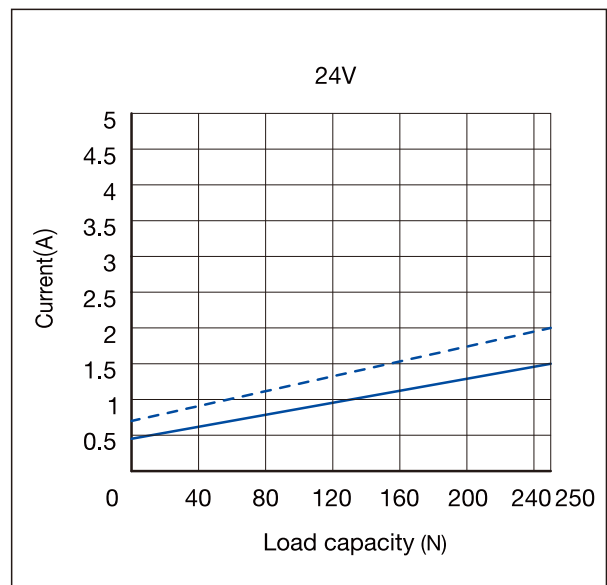
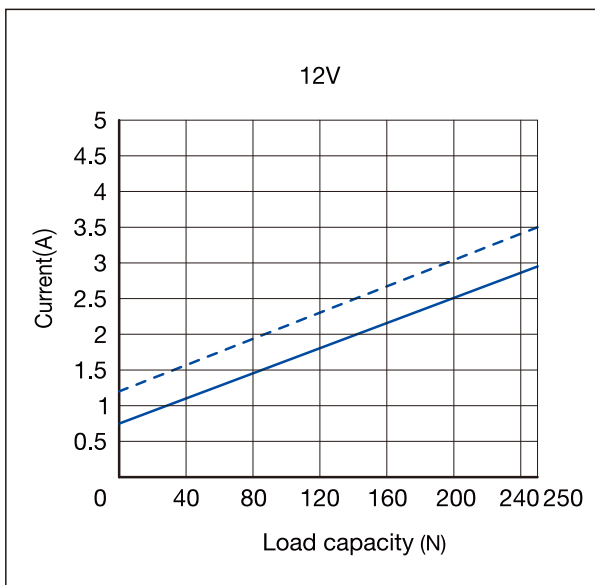
Characteristic curve



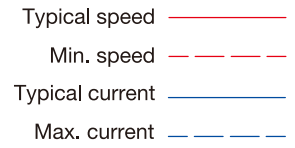
250N Speed VS Load



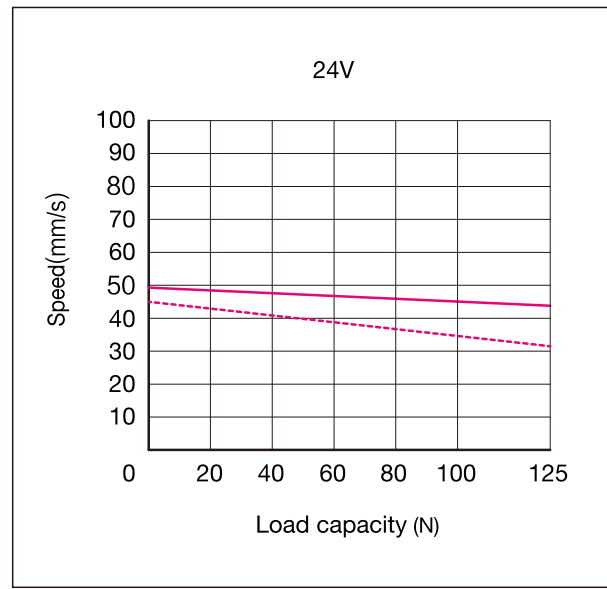
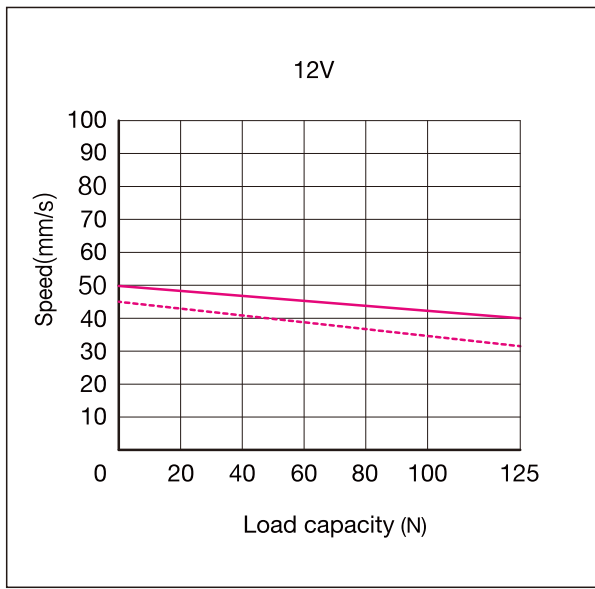
250N Current VS Load



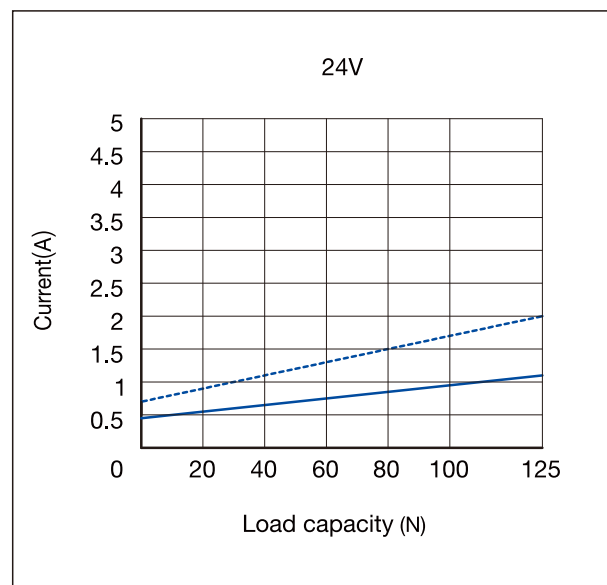
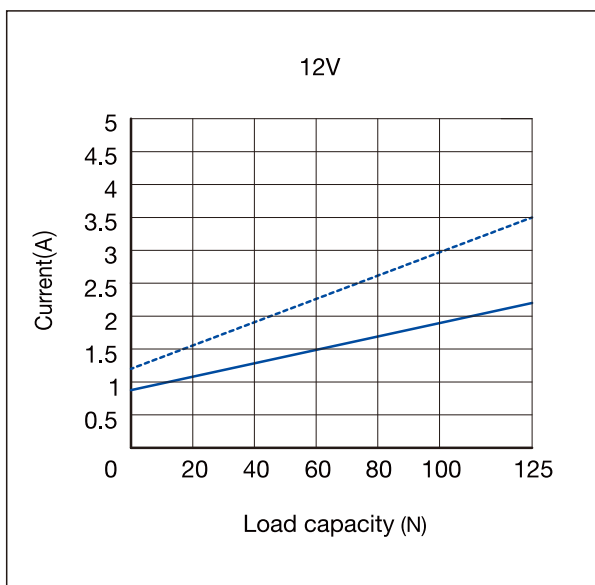
Characteristic curve



125N Speed VS Load



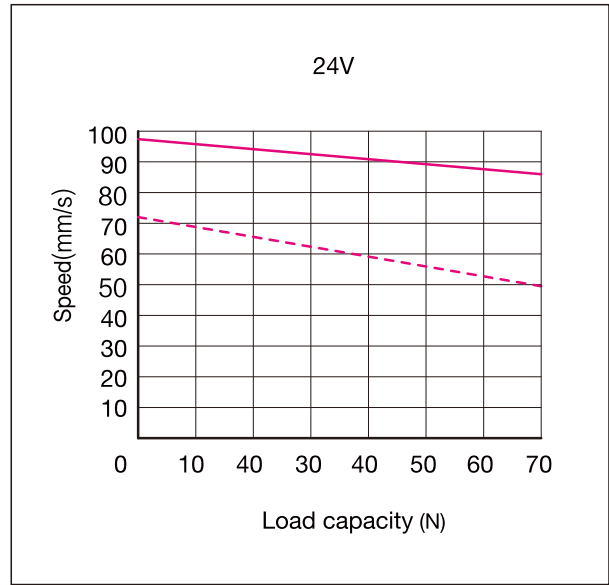
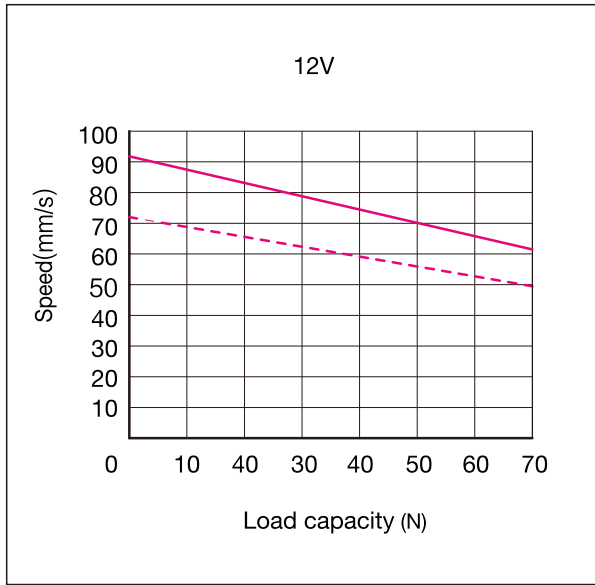
125N Current VS Load



Characteristic curve

- Typical speed ————
- Min. speed - - - - -
- Typical current ————
- Max. current - - - - -

70N Speed VS Load



70N Current VS Load

