

Linear Actuator JC35J1



Data sheet

Linear Actuator JC35J1

- JC35J1 is an actuator with small-size, low noise, could be used in smart furniture applications, and provide more solutions for smart home;
- Suitable for smart leisure chairs, massage chairs, foot bath chairs and other fields.



Features and options

- Load in push: 2000N
- Load in pull: 1500N
- Color: Black RAL9005
- Max IP Grade: IP20
- Motor rated voltage: 24VDC
- Stroke length:
2000N: 50-500mm (in steps of 4mm)
- Installation dimensions:
 $115 \leq L \leq 300$ ($50 \leq S \leq 500$)
- Noise level: ≤ 50 dB, (environmental noise ≤ 40 dB)
- Hall sensor: optional
- Built-in electronic limit switches
- Weight: About 2kg (different stroke/ retracted length with different weight)
- Static bending moment: lateral load are not allowed

Usage

- Duty cycle: 10%, max 2 min continuous working and 18 min off
- Operating temperature: 5~40℃
- Storage temperature: -10~50℃
- Supporting controller: it can be matched with Jiechang standard controller.
- Relative humidity: 20% - 90% at 30 ℃, non condensing
- Atmospheric pressure: 700-1060hPa

Approval

- CE:EN60335-1:2012+A11+A13+A1+A14+A2
EN62233:2008
- UL:UL 1004-1, 2nd Ed., Issue Date: 2012-09-19, Revision Date: 2020-11-05,
- UL 1004-3, 2nd Ed., Issue Date: 2015- 02-27, Revision Date: 2018-01-31

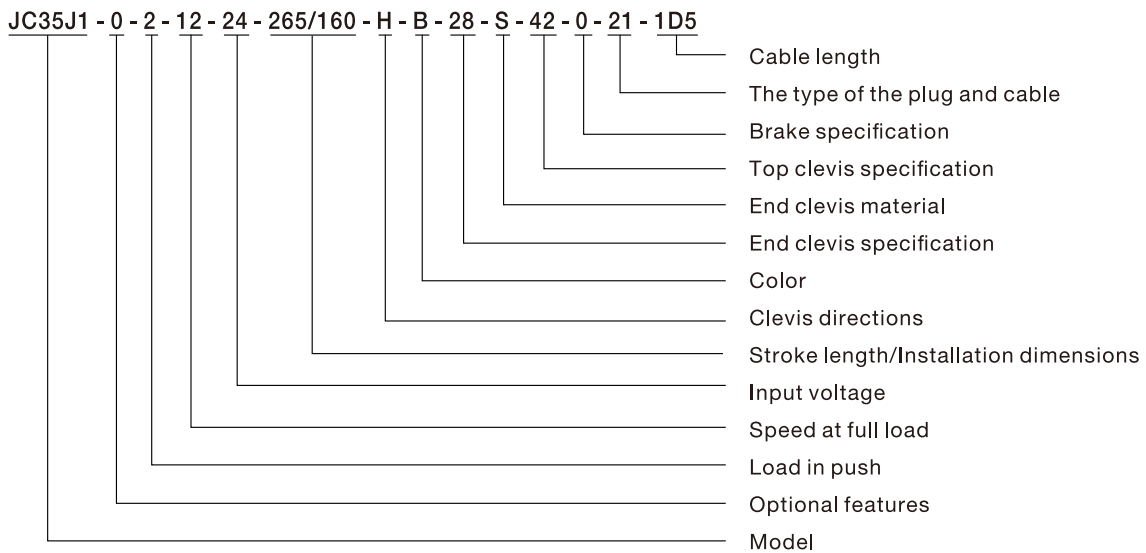
Technical Data

| Voltage (VDC) | Spindle pitch (mm) | Max. Load (N) | Static Load (N) | Speed at no load (mm/s) | Speed at full load (mm/s) | Current at full load (A) |
|---------------|--------------------|---------------|-----------------|-------------------------|---------------------------|--------------------------|
| 24 | 5 | 2000 | 1500 | 16.7 | 12 | 4.5 |

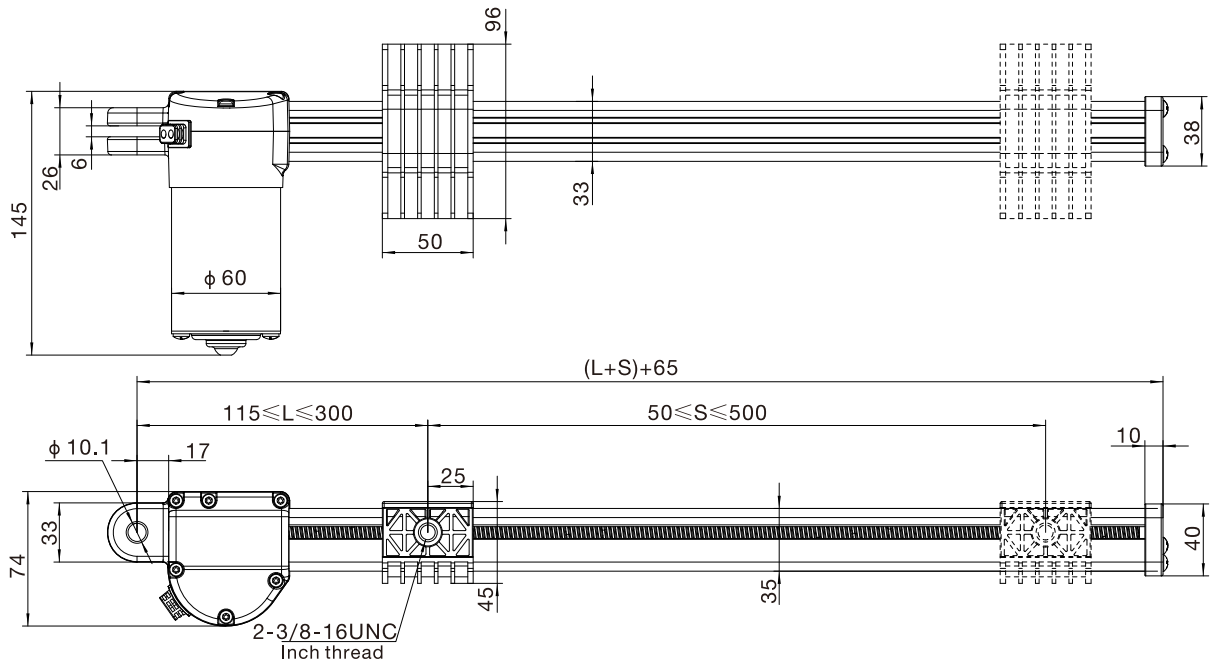
Ordering Key

| | | |
|---------------------------------------|---------|--|
| Model | JC35J1 | |
| Optional features | X | 0=Standard Z= Single Hall sensor option Y= Hall sensor option |
| Load in push | X | 2=2000N |
| Speed at full load | XX | 12=12mm/s |
| Input voltage | XX | 24VDC |
| Stroke length/Installation dimensions | XXX/XXX | Stroke length=XXX Retracted length=XXX |
| Clevis directions | X | H=H direction: the hole is perpendicular to the ground |
| Color | X | B=Black(RAL9005) |
| End clevis specification | XXX | 28=B28:End clevis(integrated with gearbox),diameter of hole 10.1 |
| End clevis material | X | S=plastic |
| Top clevis specification | XXX | 42=F42:plastic top clevis(Integrated with plastic nut) 3/8-10UNC Inch thread |
| Brake specification | X | 0=No brake |
| Plug and cable | XXX | 21=6pin ET straight plug |
| Cable length | XXX | 1D0=1.0m 1D5=1.5m |

Naming regulation

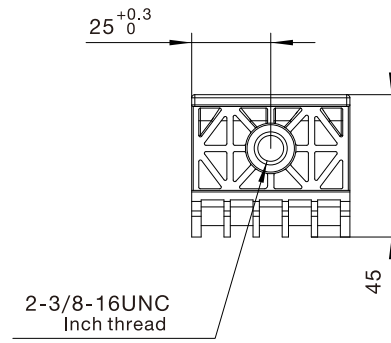
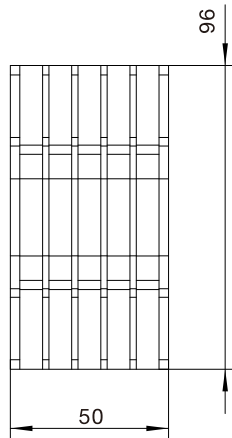


Dimension drawing

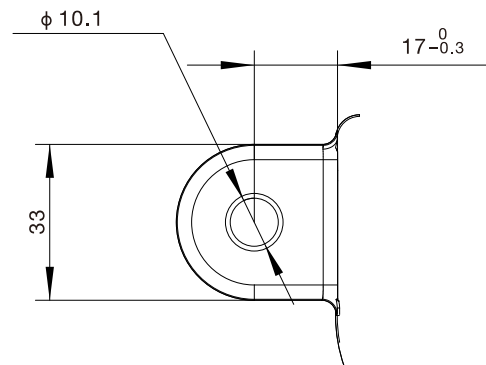
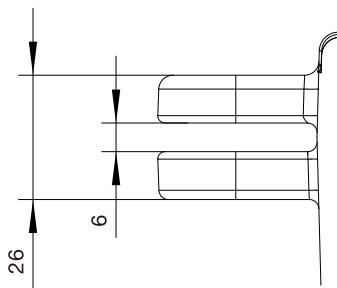


Clevis specifications

Top clevis: F42



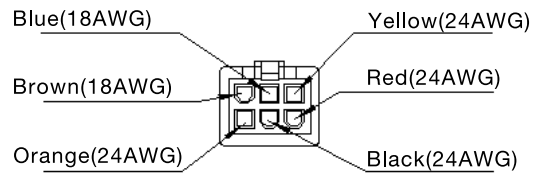
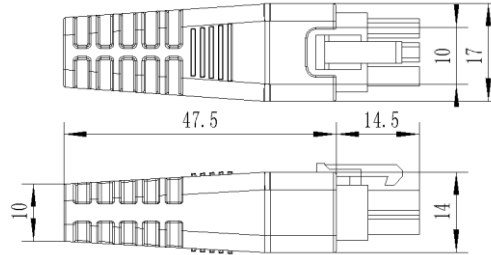
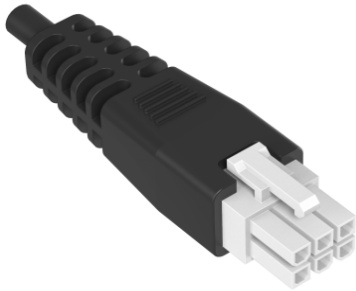
End clevis: B28



Motor wire: 6pin ET straight plug

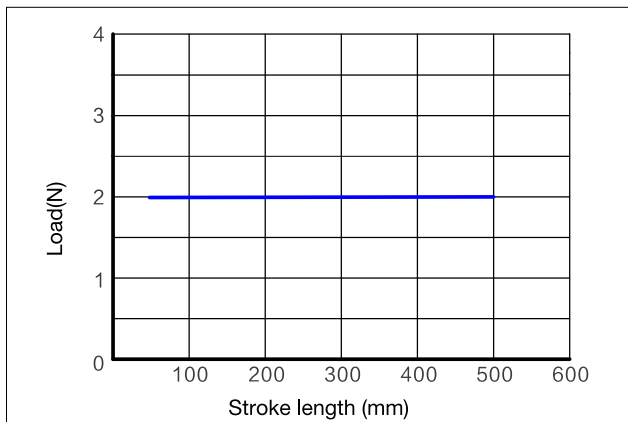
21=6pin ET straight plug

Supporting control box: JCB35H7A1



| 6 pin straight plug (normal actuator) | | |
|---------------------------------------|--------|--|
| Pin | Color | Function |
| 1 | yellow | Hall signal 1 |
| 2 | red | 5V |
| 3 | black | GND |
| 4 | orange | Hall signal 2 |
| 5 | blue | When positive voltage power on, actuator go up |
| 5 | brown | When positive voltage power on, actuator go down |

Diagram of relationship between stroke length and load



Characteristic curve: 2000N

