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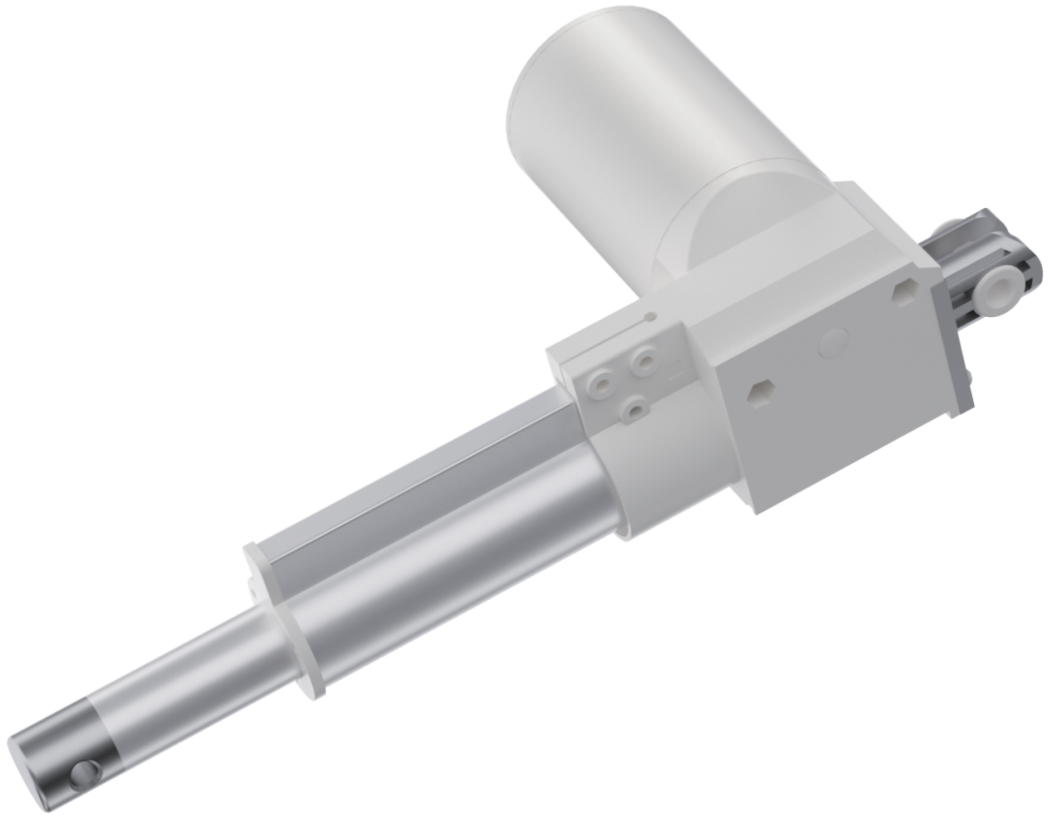
LINEAR ACTUATOR RD-398C



DRIVING DREAMS

Product Specifications

LINEAR ACTUATOR RD-398C

Product characteristics

- RD-398C is a Linear actuator with quick release function,
  The following models are available:
  398C 0 6 4D5 24 888/888 B Zn 01 E 02 0 05 1D5
- It is characterized by small size, high accuracy and complete synchronization, good self-locking performance, sanitary, direct motor drive.
  High protection grade IP54 and low noise;
  Applicable to household electric beds, medical electric beds, beauty beds, dental chairs, or related automated industrial machinery.

Features and options

- Maximum thrust: 1000N 2000N 3000N 4000N 6000N
- Maximum tension: 600N 1500N 2000N 3000N 5000N
- Color: White / Black
- Protection grade: IP54
- Stroke length: 100 / 150 / 200 / 250 / 300 / 350 / 400mm. Special stroke can be customized
- Installation dimension: minimum installation distance (L) ≥ 150 + stroke (s) + safety distance (c)
  L=S+150 (40<S≤200) L=S+150+5 (200<S≤250)
  L=S+150+10 (250<S≤300) L=S+150+15 (300<S≤350)
  L=S+150+20 (350<S≤400) L=S+150+25 (300<S≤450)
  L=S+150+30 (450<S≤500) L=S+150+35 (300<S≤550)
  L=S+150+40 (550<S≤600)
- Noise level: ≤ 48dB (a) (ambient noise ≤ 40dB)
- Quick release function: Standard
- Safety nut: optional
- Single Hall feedback: optional
- Built in electronic limit switch
- Weight: about 3 kg (different stroke/ installation distance, weight difference)
- Static bending moment: lateral load is not allowed

Use:

- Working duty ratio: 10%; Continuous use for 2 minutes, rest for 18 minutes
- Service temperature: 5-40 ℃
- Storage temperature: - 5-45 ℃
- Supporting controller: optional Runda conventional controller
- Relative humidity: 20% - 90% at 30 ℃, non condensing
- Atmospheric pressure: 700-1060hpa

Certificate

- EN60601-1/EN60601-1-2 & ROHS2.0

Technical Parameter

Voltage (V)	Lead (mm)	Maximum load (N)	Self-locking force (N)	No load speed (mm/s)	Load speed (mm/s)	Load speed (A)
24	10	1000	600	20	13.5	5
29	10	1000	600	23	16	5
24	7.5	2000	1500	14	10	5
29	7.5	2000	1500	17.5	13	5
24	7.5	3000	2000	10.5	6.5	4
29	7.5	3000	2000	13	9	4.5
24	5	4000	3000	8.5	6.0	6.5
29	5	4000	3000	10.5	7.5	6.5
24	4	6000	5000	7	4	6.5
29	4	6000	5000	8.5	5.5	6.5

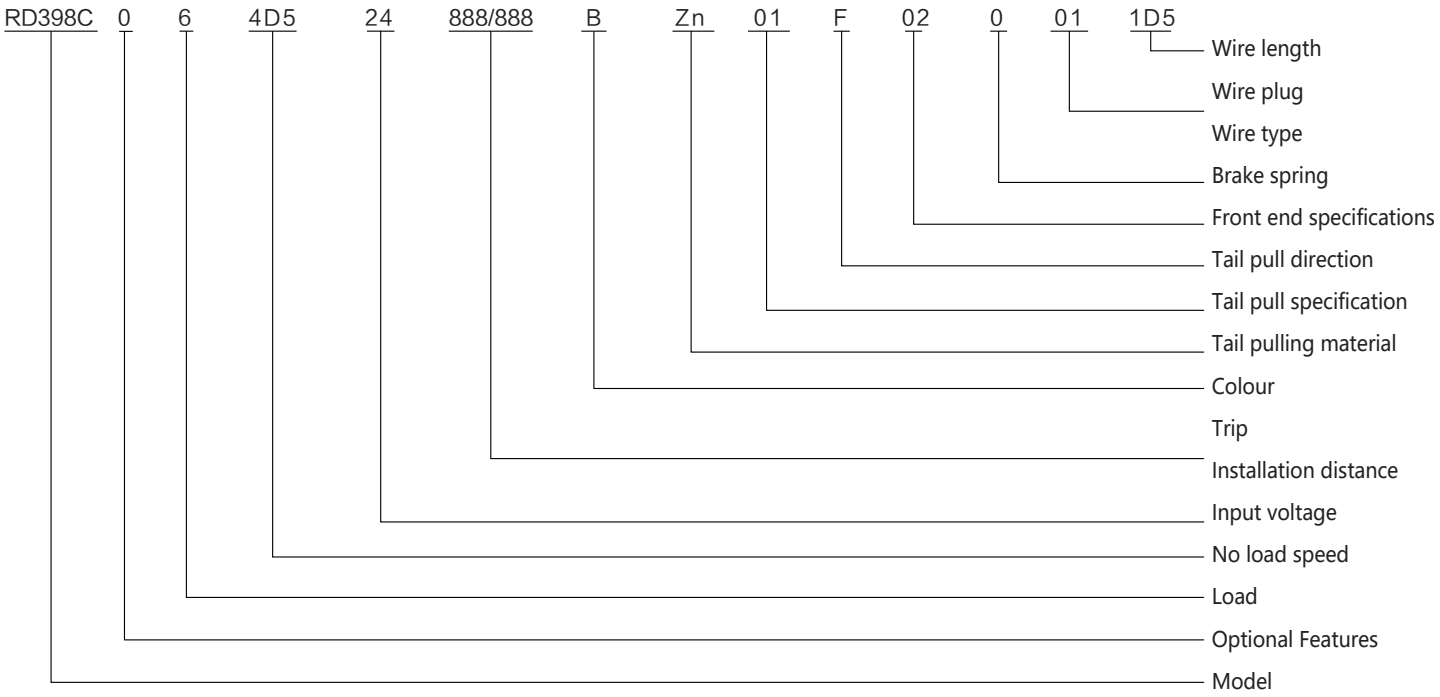
Note: the above data is the average value of test data at room temperature of 25 ℃

Naming rules example

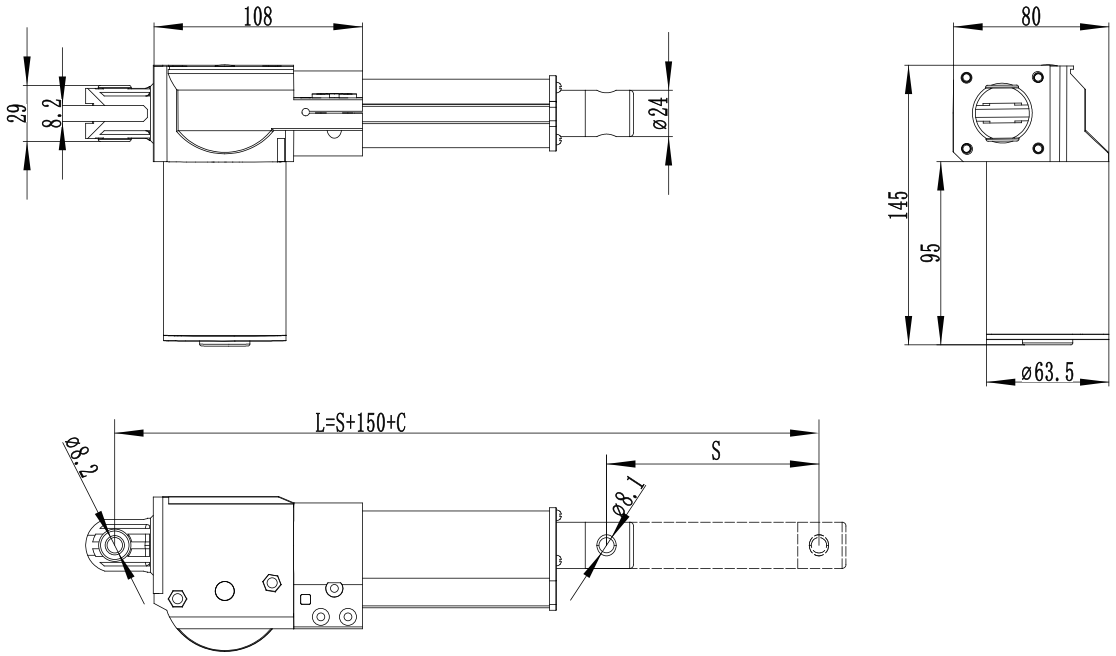
Model	RD398C	
Optional function	**0**	0=Standard G=With reed pipe P=Anti pinch hand
Load	**6**	1=1000N 2=2000N 3=3000N 4=4000N 6=6000N
No-load speed*D*		4-15mm/s (Example：4D=4mm/s 、 4D5=4.5mm/s)
Input voltage	**24**	24=24VDC 29=29VDC
Stroke / Installation distance		Stroke=XXX / Installation distance=XXX
Color	**A**	A=White B=Black
Tail pull material	**Zn**	Zn=Kirsite Fe=Iron
Tail pull specification	**01**	01=Groove width8.2，groove depth32，hole diameter of cushion sleeve8.1 02=Groove width8.2，groove depth32，hole diameter of cushion sleeve10.1 03=Groove width8.2，groove depth32，hole diameter of cushion sleeve10.2
Tail pull direction	**E**	E=90° F=0°
Front end specification	**00**	00=No iron head 01= Front iron head slotted 02= Front iron head not slotted
Brake spring	**0**	0=No brake function 1=Brake function
Wire plug Wire type	**01**	01=2-core 4-pin straight line insertion
Wire length*D*		Example 1D5=1.5m 、 2D0=2.0m

RD398C	0	6		24		A	Zn	01	E	00	0	01	

示例



Product dimension drawing

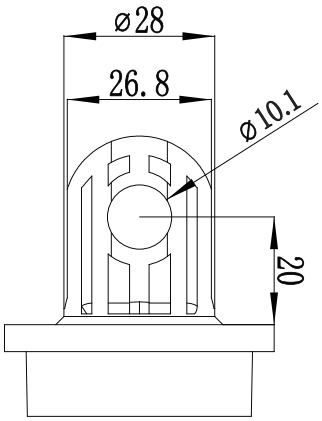


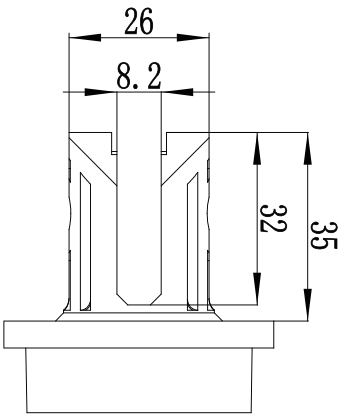
L=150mm+stroke (S)+safety distance (C)

Stroke S (mm)	Safe distance C (mm)
40<S≤110	--
111<S≤200	--
200<S≤250	5
250<S≤300	10
300<S≤350	15
350<S≤400	20
400<S≤450	25
450<S≤500	30
500<S≤550	35
550<S≤600	40

Pulling head dimension drawing

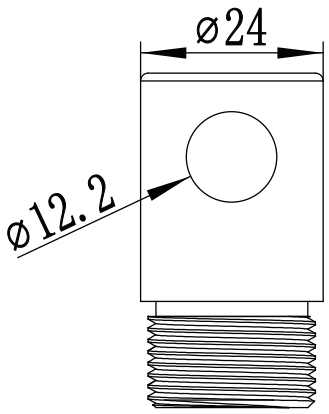
Tail Pull:

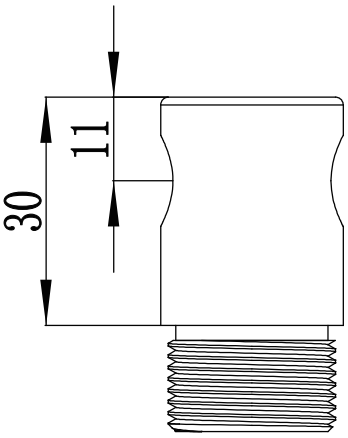




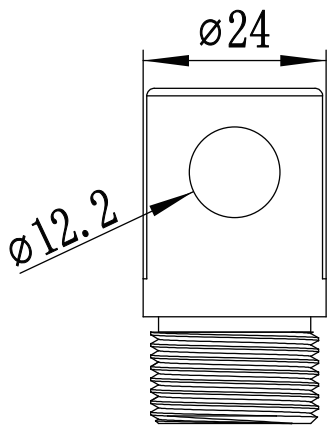
Front Pull:

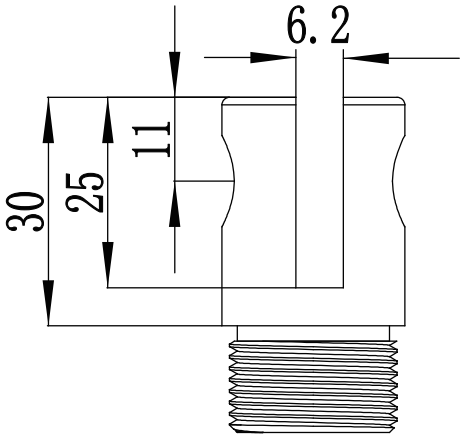
front end no sloting:





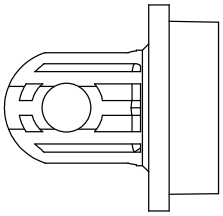
Front end sloting:

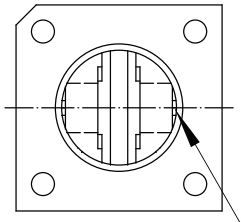




Tail pull direction

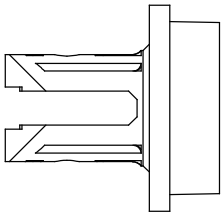
F=0°

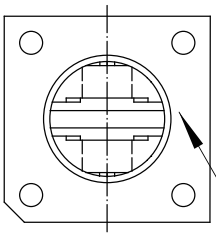




The through hole centerline is parallel to the ground

E=90°



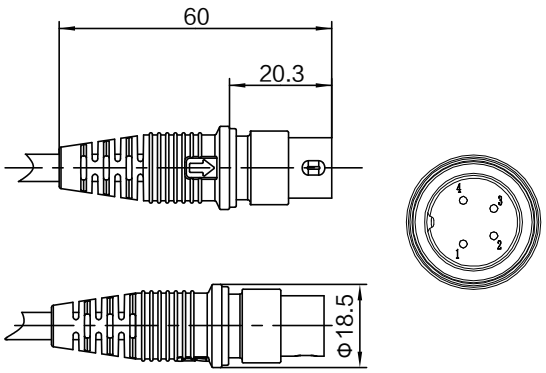


The through hole centerline is perpendicular to the ground

Motor line

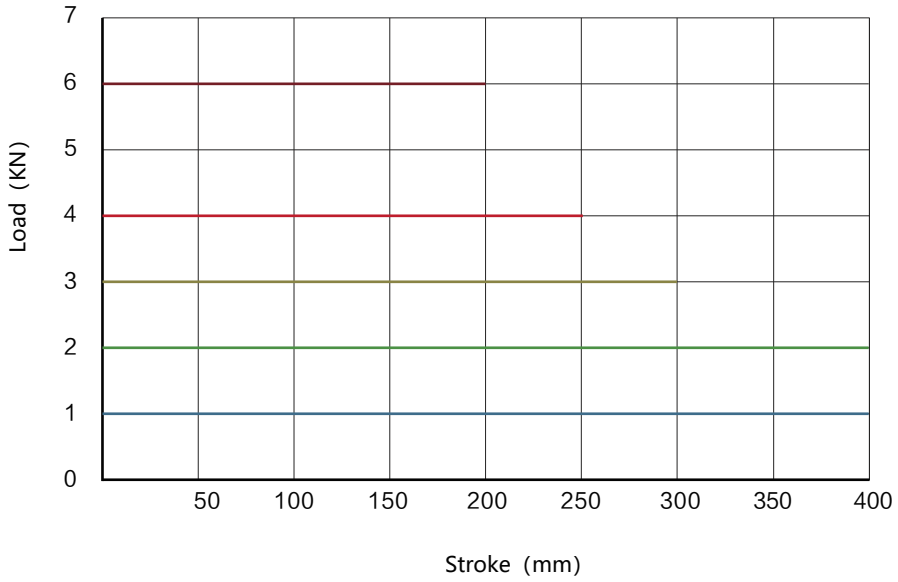
Motor line： 2P4Z

2-core 4-pin straight line insertion



2-core 4-pin straight line insertion		
PINS	Color	Function
1	NG	Not connected
2	Brown	Motor positive stage
3	Blue	Motor negative stage
4	NG	Not connected
Outer ring	NG	Not connected

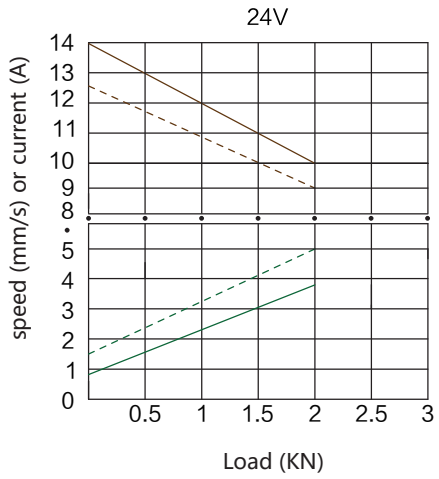
Relationship between stroke and load

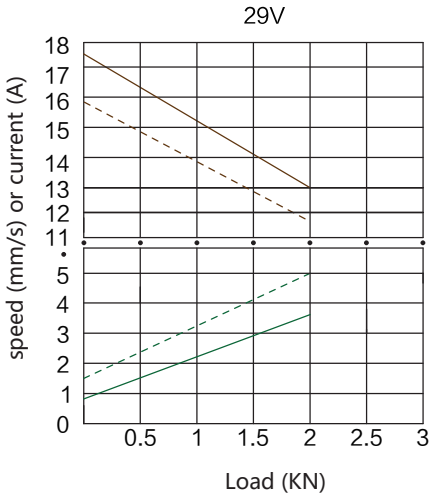


Characteristic curve

RD-398C 1000N current, speed and load relationship diagram

Typical speed —— Minimum speed — — — — Typical current —— Maximum current — — — —

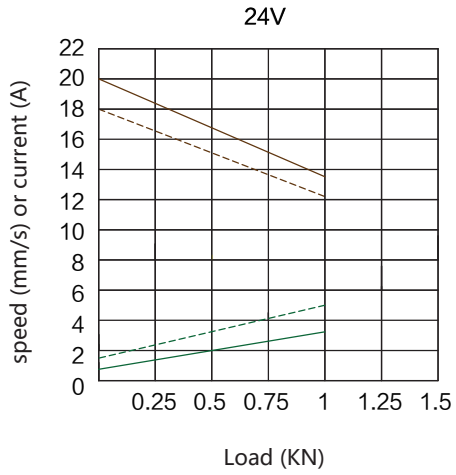


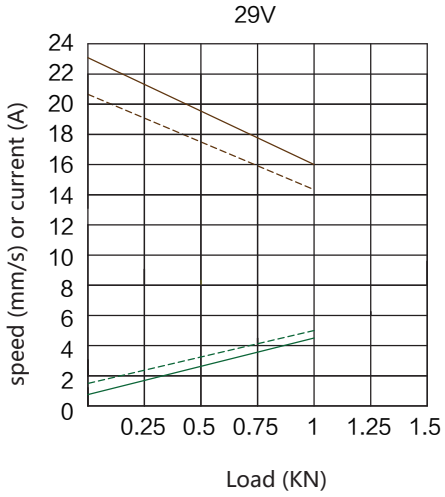


Characteristic curve

RD-398C 2000N current, speed and load relationship diagram

Typical speed ——— Minimum speed — — — — Typical current ——— Maximum current — — — —

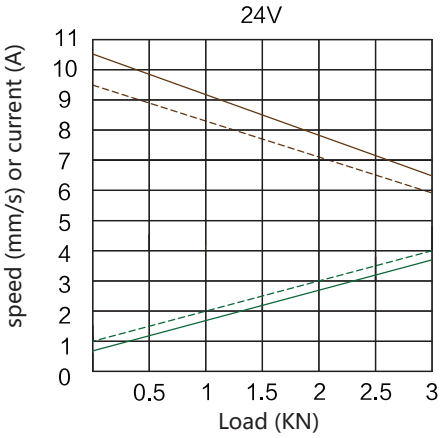


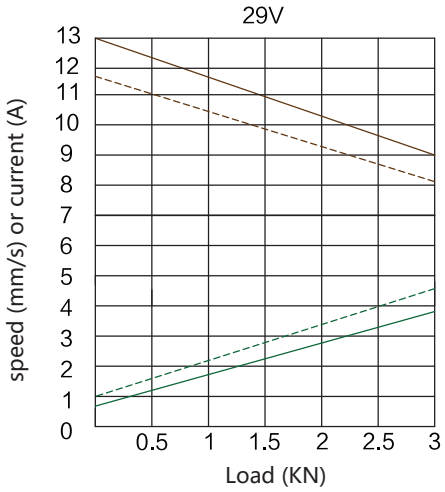


Characteristic curve

RD-398C 3000N current, speed and load relationship diagram

Typical speed ——— Minimum speed — — — — Typical current ——— Maximum current — — — —

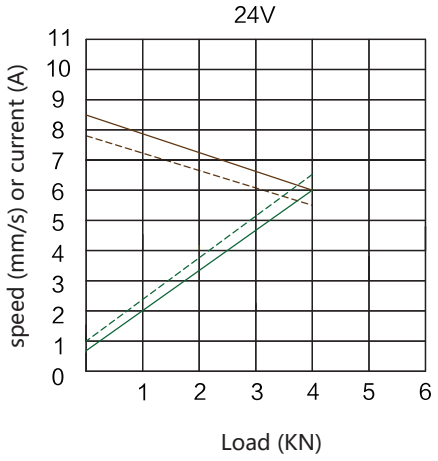


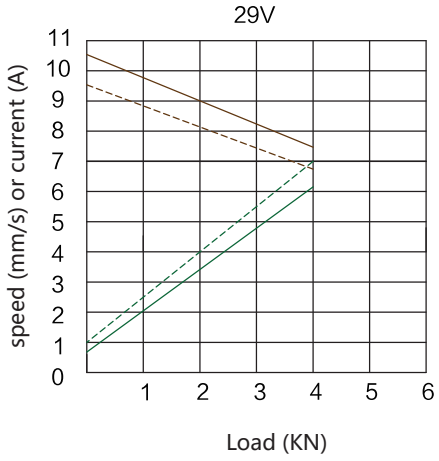


Characteristic curve

RD-398C 4000N current, speed and load relationship diagram

Typical speed ——— Minimum speed — — — — Typical current ——— Maximum current — — — —





Characteristic curve

RD-398C 6000N current, speed and load relationship diagram

Typical speed ——— Minimum speed — — — — Typical current ——— Maximum current — — — —