

Linear actuator V12



TECHNICAL SPECIFICATIONS

Input Voltage	24V CC / 12V CC
Maximum force	-Push = 1 500 N -Pull = 1 500 N
Maximum static load	1 800N
Strokes	-standard 50 ~ 400mm or customized
Speed	-maximum 17.4 mm/sec. without load -maximum 5 mm/sec. at full load
Compatibility with control box	-BCT/BCS1/BCS2/BCT2/BC3T/BC4M/BC2P/BC4P/BC6C/BC7C without Hall effect sensors -BC3T-SY/BC4M-S/BC4M-B/BC4M-SY with Hall effect sensors
Duty cycle	10% (2 mn continuous operation in 20min)
Ambient operation temperature	-20°C ~ +70°C
IP protection level	IP66, IP69K
Standards certification	CE Marking, MDD Directive 93/42/EEC

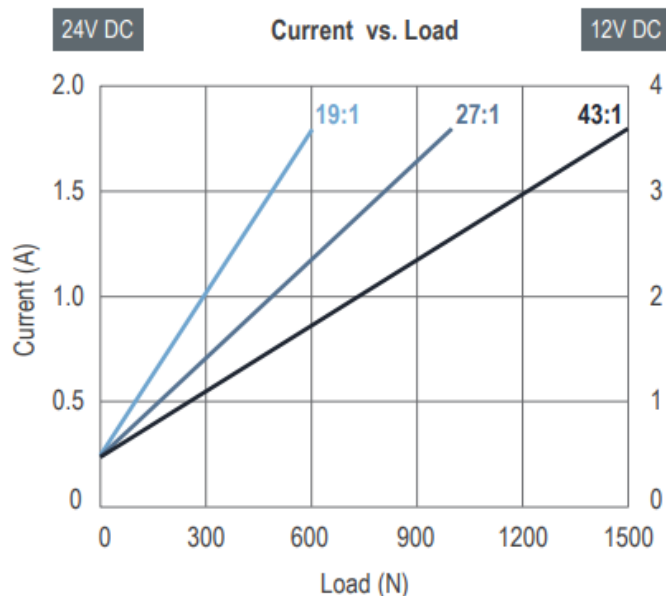
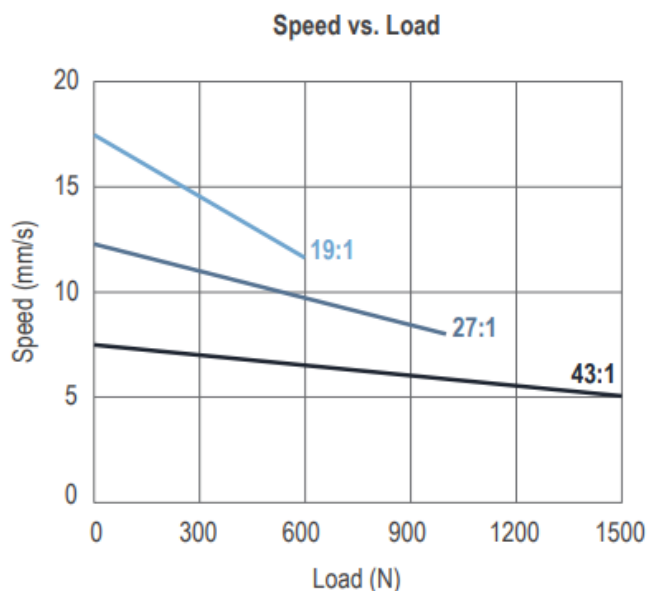
Options :

Positioning signal feedback	2x Hall effect sensors
Attachment	Mouting bracket (MB22)

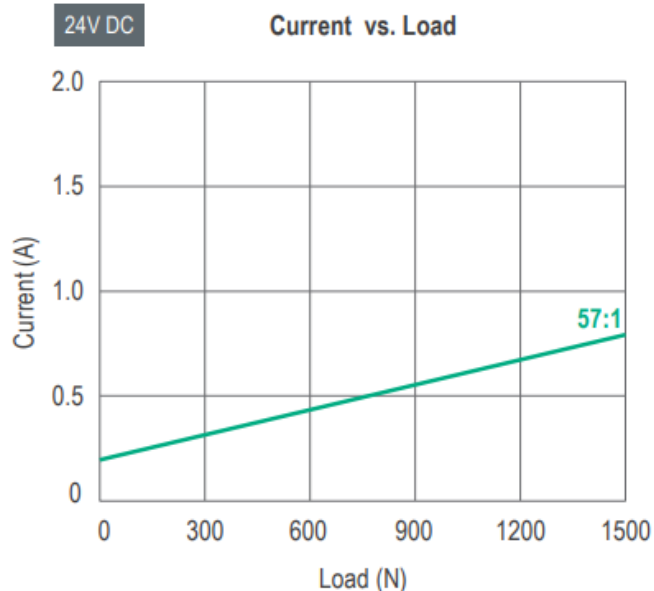
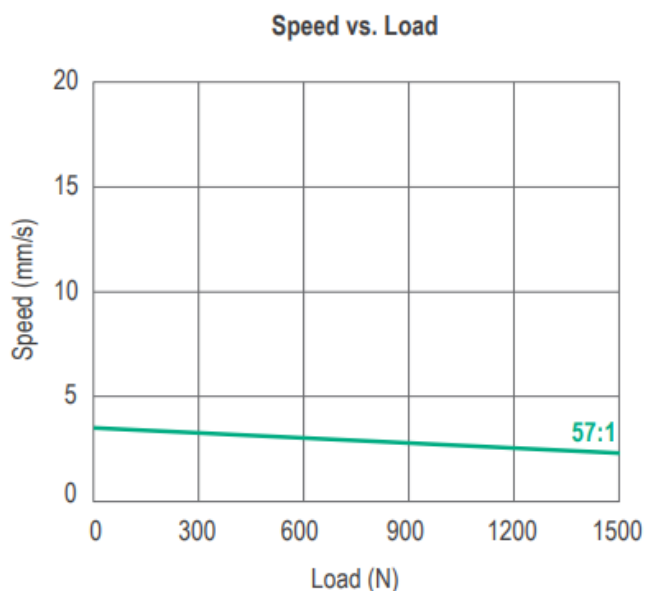
PERFORMANCES

Model No.	Gear ratio	Push/Pull load Max. (N)	**Typical speed (mm/s)		**Typical intensity (A)			
			No load	Full load	No load		Full load	
					12V	24V	12V	24V
V12-XX19-M2-XXX.XXX-XXXXXX	19:1	600	17.4	11.7	0.5	0.25	3.6	1.8
V12-XX27-M2-XXX.XXX-XXXXXX	27:1	1 000	12.3	8.0	0.5	0.25	3.6	1.8
V12-XX43-M2-XXX.XXX-XXXXXX	43:1	1 500	7.5	5.0	0.5	0.25	3.6	1.8
*V12-2457-K2-XXX.XXX-XXXXXX	57:1	1 500	3.5	2.3	N/A	0.2	N/A	0.8

Motor type M2



Motor type K2

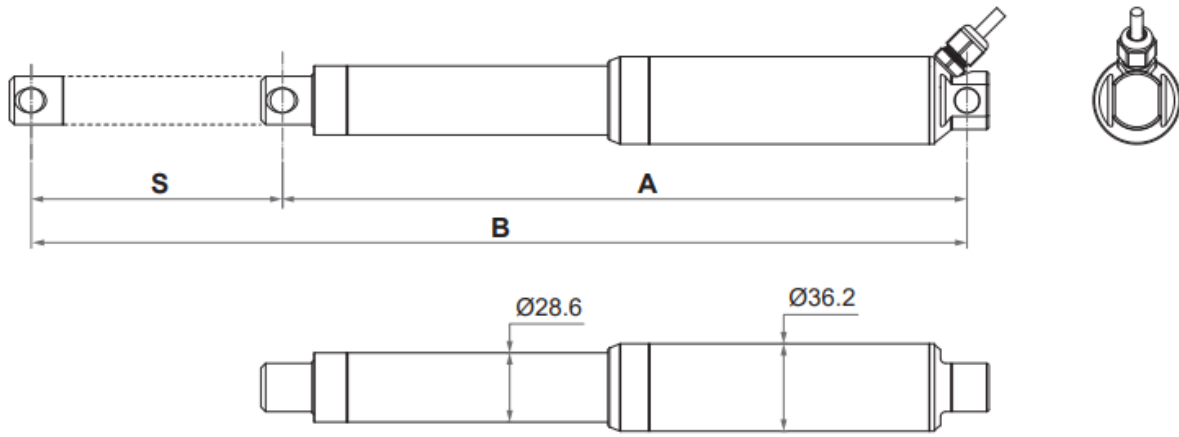


Remarks:

- * 2457-K2 is designed for applications requiring lower noise but less speed concern. 24VDC available only.
- ** The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

DIMENSIONS

Unit: mm

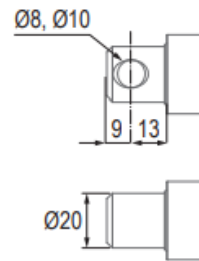
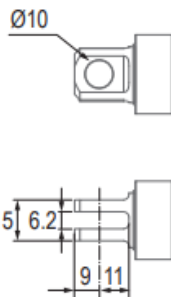
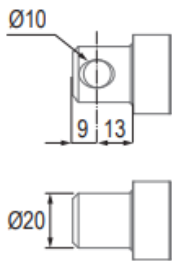


• Front connector

1=Stainless steel solid

2=Stainless steel slot

3=Aluminum solid
(Black coating steel case only)

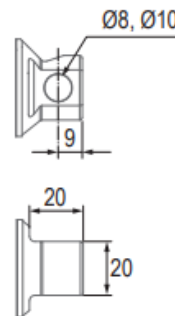
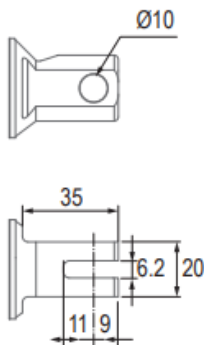
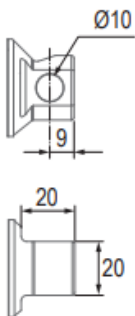


• Rear connector

1=Stainless steel solid

2=Stainless steel slot

3=Aluminum solid
(Black coating steel case only)



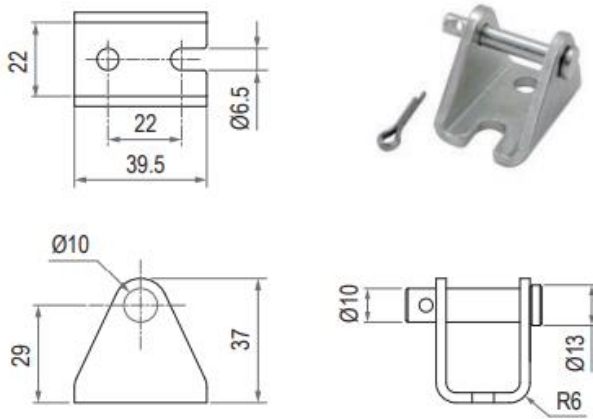
• Installation dimension

Retracted length (A)

Front connector code	Rear connector code	Stroke (S)							
		50	100	150	200	250	300	350	400
1	1	233	283	333	383	433	483	533	583
1	2	248	298	348	398	448	498	548	598
2	1	237	287	337	387	437	487	537	587
2	2	252	302	352	402	452	502	552	602
3	3	233	283	333	383	433	483	533	583

(tolerance: ±3mm)

• **Mounting bracket (MB22)**



CABLE PLUG

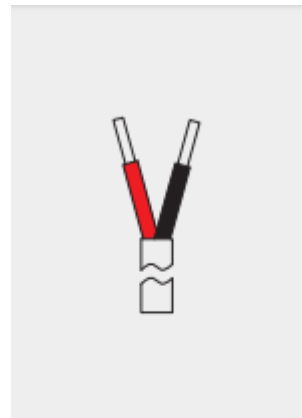
Wire definitions:

• **Without positioning sensor feedback**

Power	
Red	Black
M+	M-

Note:

1. Connect Red (M+) to '+' & Black (M-) to '-' of DC power, the actuator will extend.

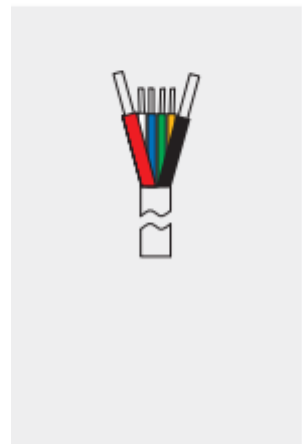


• **With Hall effect sensor x 2**

Power		Signal			
Red	Black	White	Yellow	Blue	Green
M+	M-	GND	VCC	DATA1	DATA2

Note:

1. Connect Red (M+) to '+' & Black (M-) to '-' of DC power, the actuator will extend.
2. Hall effect sensor resolution



Gear ratio	Resolution (pulses/mm)
19:1	9.56
27:1	13.50
43:1	21.45
57.1	28.43

3. Voltage input range (VCC): 3.5~20V
4. Output voltage of signal (Data) = Input voltage of VCC
5. Hall signal data

