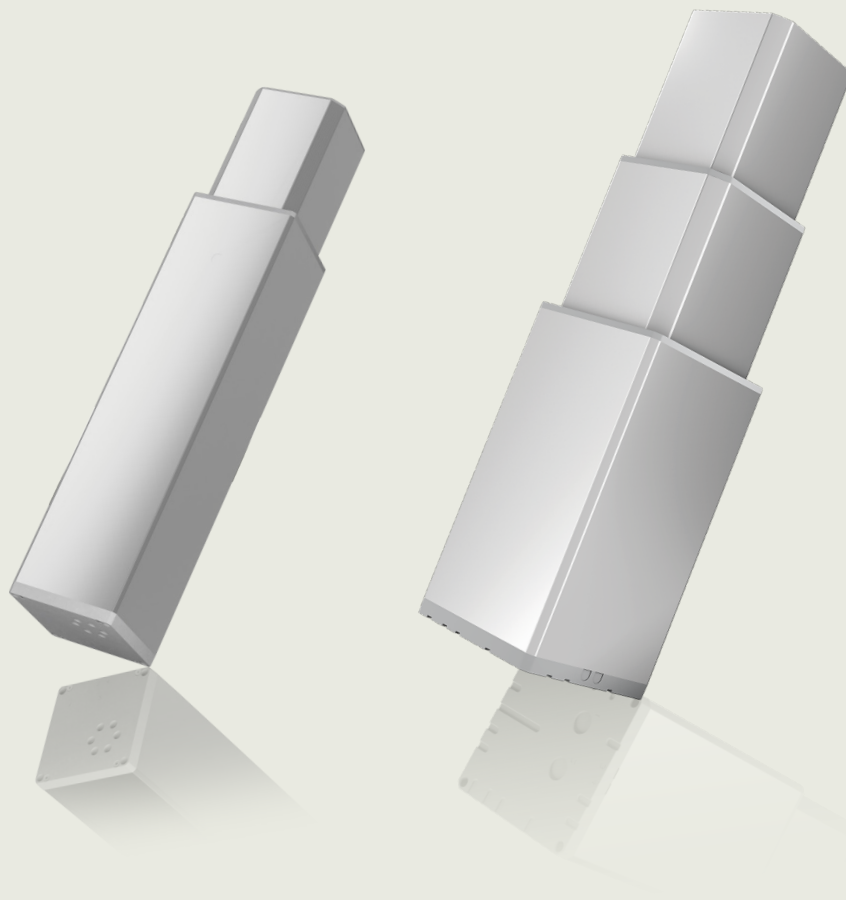


# Lifting Column LC3 – 2-stage and 3-stage Data Sheet

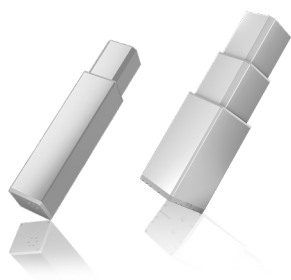


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## Introduction



The LC3 2-stage and 3-stage set the standard for vertical lifting columns to high-end medical applications. This compact lifting column fulfils the market requirements for a solid and stable lifting column.

High speed and advanced memory options ensure fast and easy positioning of the application. The smooth design with cables through the column make it very cleaning friendly. The LC3 moves very quietly even with substantial loads.

## Features and options

Load in push	4,000 N, 5,000 N, 6,000 N
Load in pull	4,000 N
Profile colour	Anodised aluminium
Top and bottom plate colour	Zink grey
Protection class	IPX4 standard, IPX6 optional
Motor	24 V DC Type G to be used with LINAK control box Type B to be used with customer supplied control box
Stroke length	3-stage: 400-700 mm in steps of 50 mm, 200-700 mm in steps of 1 mm on request. 2-stage: 200-700 mm in steps of 50 mm, 200-700 mm in steps of 1 mm on request.
Built-in dimensions	See built-in dimension matrix 3-stage: $S/2 + 120$ mm, min. BID 320 or $S/2 + 240$ mm, min. BID 440 2-stage: $S+180$ mm, min. BID 320 or $S+250$ mm, min. BID 390
Positioning options	Dual Hall, Potentiometer
Noise level	50 dB (A)
Weight	16.4 kg - BID 320, 3-stage
Safety nut	Standard
Built-in end stop switch	Signal switch for LINAK CO control boxes. Power switch with G motor for CBJC - special item only. Power switch for customer supplied control box.
Safety factor	LC3 Push – see SF curve, Pull SF5
Dynamic bending moment	3-stage: Up to 1,400 Nm 2-stage: Up to 2,100 Nm
Static bending moment	3-stage: Up to 3,000 Nm 2-stage: Up to 3,000 Nm
Protective grounding cable	Optional
Cables through the column	Mains, hand control, motor cable
Mounting directions	Large profile down or large profile up
Connection of motor cable	Fixed or detachable
Mounting of accessory	Mounting holes for bracket on request

## Usage

Duty cycle	10%, 2 minutes continuous use followed by 18 minutes not in use
Operation temperature	+5 °C to + 40 °C
Storage temperature	-40 °C to + 70 °C
Compatibility	Compatible with LINAK control boxes. Please contact LINAK.
Relative humidity	20% to 80% – non-condensing
Atmospheric pressure	700 to 1060 hPa
Meters above sea level	Max. 3000 meters
Approvals	IEC 60601-1 IEC 60601-1-6 ANSI/AAMI ES60601-1 CAN/CSA-C22.2 No. 60601-1



## 3-stage installation dimensions

### Standard profile vs stroke length

	Stroke length: 400-700 mm*						
BID at stroke	400	450	500	550	600	650	700
S/2 + 120 mm Standard	320	345	370	395	420	445	470
S/2 + 240 mm Heavy duty	440	465	490	515	540	565	590

\* Stroke length tolerance: +3 / -7 mm

### Special dimensions

	Stroke length 200-400 mm	Stroke length 401-700 mm
	Built-in dimensions	
S/2 + 120 mm	Min. 320	S/2+120
S/2 + 240 mm	Min. 440	S/2+240

Example special dimensions: S=558 mm, BID = 399, S/2 + 120 mm

Minimum built-in dimension is 320 mm due to the motor housing and the design of the lifting column.

### Static bending moment (Nm)

	Push force (N)		
	4,000	5,000	6,000
S/2 + 120 mm Standard	1,000 Nm	1,000 Nm	1,000 Nm
S/2 + 240 mm Heavy duty	3,000 Nm	3,000 Nm	3,000 Nm



## 2-stage installation dimensions

### Standard profile vs stroke length

	Stroke length: 200-700 mm*											
	200	250	300	350	400	450	500	550	600	650	700	
BID at stroke												
S + 180 mm Standard	380	430	480	530	580	630	680	730	780	830	880	
S + 250 mm Heavy duty	450	500	550	600	650	700	750	800	850	900	950	

\* Stroke length tolerance: +3 / -7 mm

### Special dimensions

	Stroke length 140-700 mm	
	Built-in dimensions	
S + 180 mm	Min. 320	S+180
S + 250 mm	Min. 390	S+250

Example special dimensions: S=558 mm, BID = 738, S + 180 mm

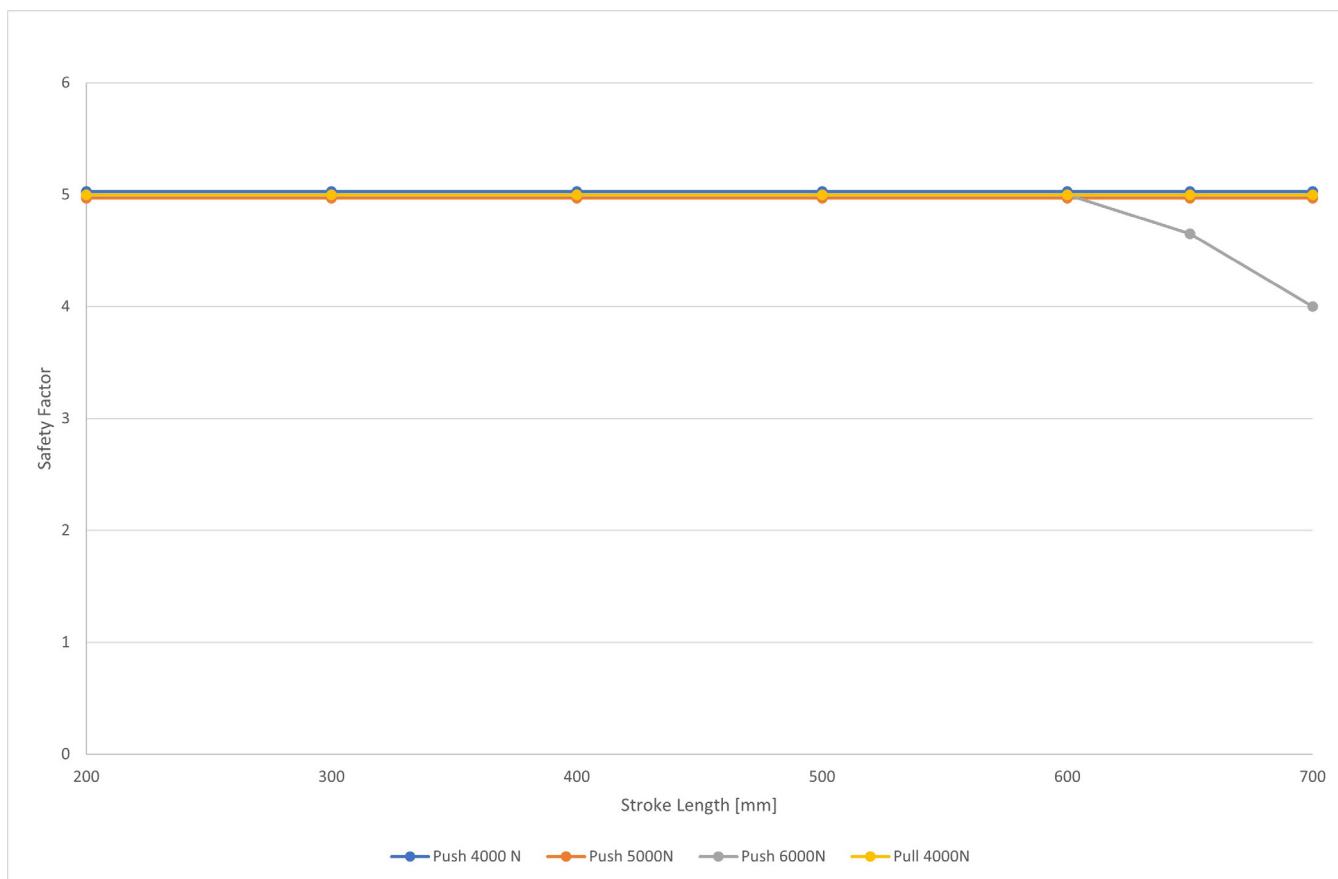
Minimum built-in dimension is 320 mm due to the motor housing and the design of the lifting column.

### Static bending moment (Nm)

	Push force (N)		
	4,000	5,000	6,000
S + 180 mm Standard	2,000 Nm	2,000 Nm	2,000 Nm
S + 250 mm Heavy duty	3,000 Nm	3,000 Nm	3,000 Nm



## LC3 safety factor in push and pull



# Ordering example

<b>Lifting Column type:</b>	LC 3	
<b>Spindel pitch:</b>	100	060 : 6 mm (6000 N)      080 = 8 mm (5000 N)      100 = 10 mm (4000 N)
<b>Stroke length:</b>	400	000 : mm      Min. 200 - Max.700 mm in steps of 50 mm
<b>Option</b>	T000 ABCD	Count Max. : 2
	<p><b>A =</b>    T= Top entry motor supply           S= Side entry motor supply</p> <p><b>B =</b>    0 = None           1 = Minifit through           2 = HB Through           3 = Side entry motor supply, Cable length 500 mm           5 = Side entry motor supply, Cable length 80 mm</p> <p><b>C =</b>    0 = None           1 = Minifit through, available with 400 mm, 500 mm and 700 mm stroke length only           2 = HB Through, on request           3 = Mains through 1-2 pin on request           4 = Mains through 2-2 pin on request           5 = Mains through 1-3 pin: always with earth profile D=1 on request           6 = Mains through 2-3 pin: always with earth profile D=1 on request</p> <p><b>D =</b>    0 = No Earth profile           1 = Earth profile</p>	<p>0 1 0 1 1 0 0 0 1 1 1 1 1 1 0 1</p> <p>Please notice that max. sum of options is 2*</p>
<b>Feedback:</b>	0M	<p>00 : None (also to be used when encoded wo feedback 0 or 1)</p> <p>0H : Dual Hall digital (only possible with power switch 0)</p> <p>0M : Dual Hall, encoded (only possible with encoded switch 1)</p> <p>0P : Potentiometer (only possible with power switch 0) on request</p>
<b>Installation dimension:</b>	0320	0000 =
<b>Part</b>	0	<p>0 = 3 part column 1/2s + 120 min. BID 320</p> <p>1 = 3 part column 1/2s+240 min. BID 440, heavy duty</p> <p>2 = 2 part column S+180 min. BID = 320 mm</p> <p>5 = 2 part column S+250 (heavy duty min. BID 390)</p>
<b>Motor type:</b>	G	<p>B = 24 VDC to be used if customer supplied control box</p> <p>G = 24VDC to be used if LINAK control</p>
<b>Endstop:</b>	1	<p>0 : Power switch</p> <p>1 = Encoded signal swtch (ONLY "G" MOTOR)</p>
<b>Mounting direction:</b>	1	<p>1 : Top plate up 3-stage (not valid option for mains through)</p> <p>2 : Top plate down 3-stage</p> <p>3 : Top plate up 2-stage (not valid option for mains through)</p> <p>4 : Top plate down 2-stage</p>
<b>IP degree:</b>	4	<p>4 : IPX4 (only valid option for mains through with top plate down)</p> <p>6 : IPX6 (not valid option for mains through)</p>
<b>Colour:</b>	-	- : Aluminium
	0	0
	0	0
	0	0

**LC3100400T0000M03200G114-000**

\* Example: If an LC3 version with mains cable through the column is needed, it is possible to specify one more cable through the column, e.g. earth profile giving a maximum count of 2.

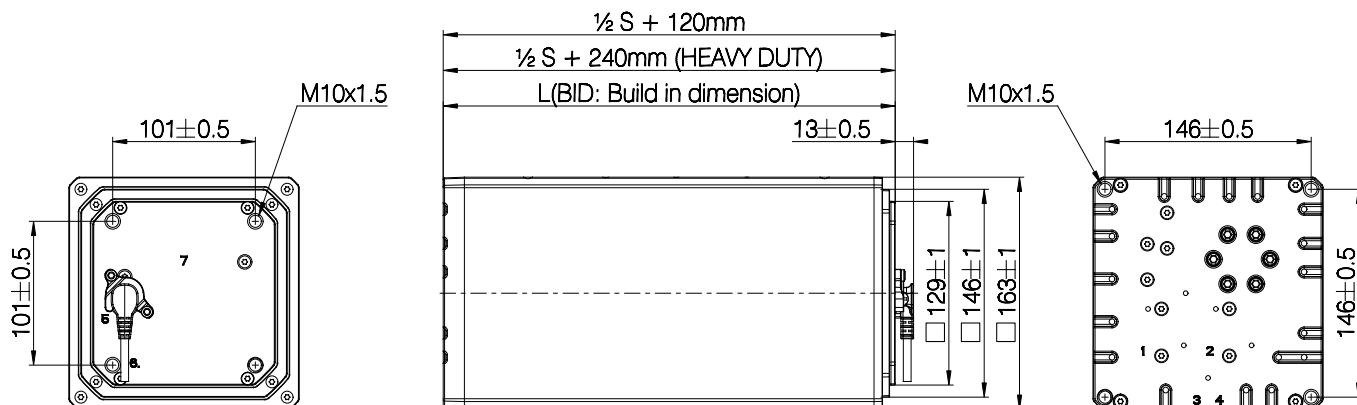


## Dimensions

All dimensions are in mm.

### LC3 3-stage

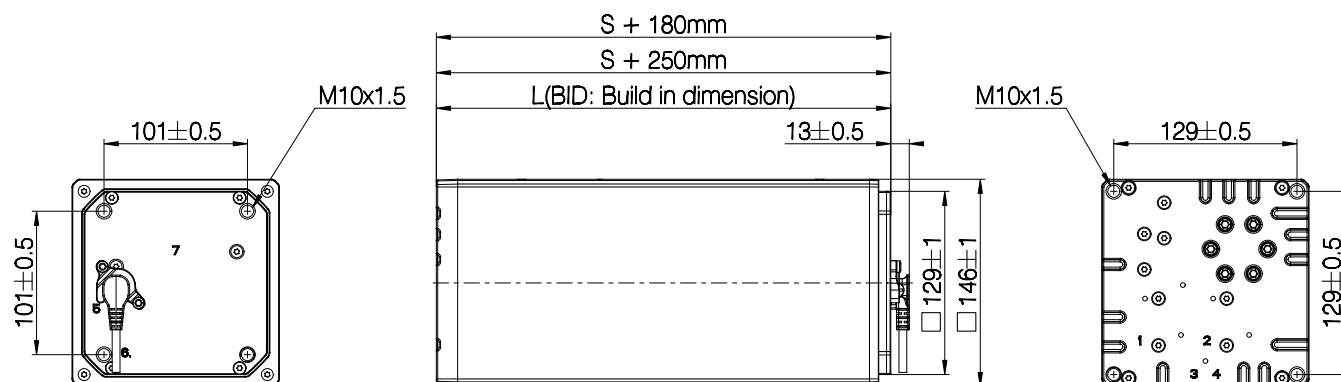
BID tolerance: +/- 2.5 mm



Drawing no: 1002W9005

### LC3 2-stage

BID tolerance: +/- 2.5 mm

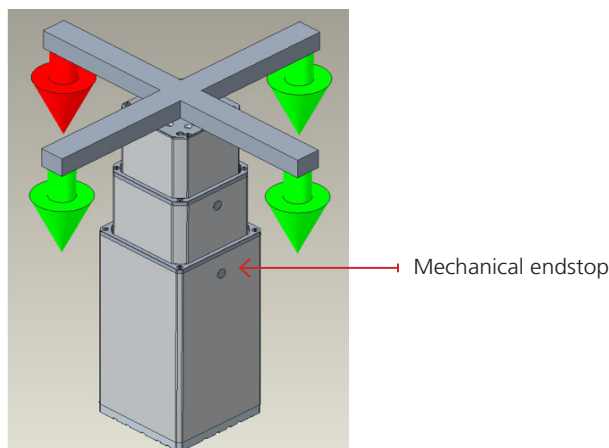


Drawing no: 1002W9008

## LC3 mounting guidelines

It is very simple to mount the LC3 in the application using the 4x M10 mounting holes in both endplates.

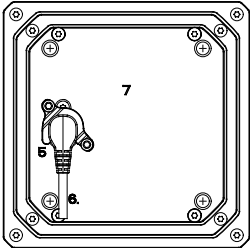
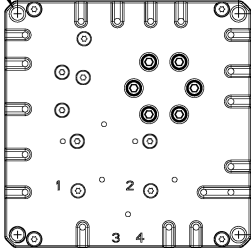
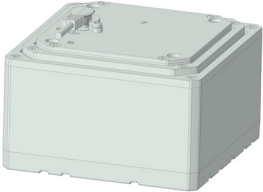
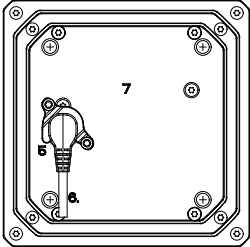
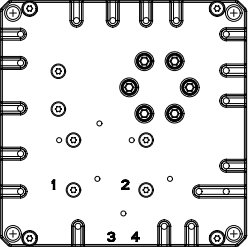
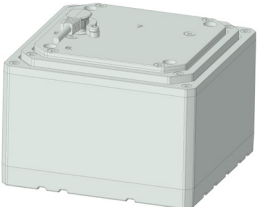
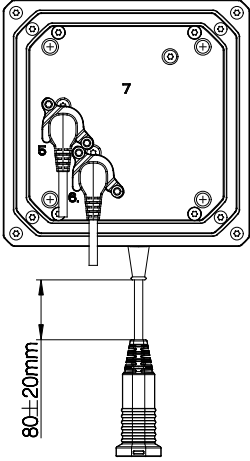
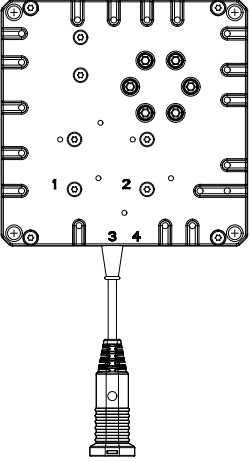
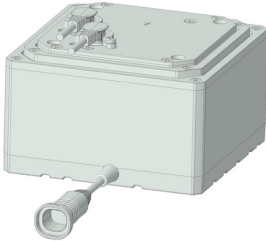
If the column is to be used with a high off-center load, we recommend to install the weight in one of the 3 ways illustrated by the green symbols. It is not recommended to install the weight on the opposite side of the mechanical endstop as illustrated with the red symbol. This installation can create an uneven movement when the lifting column reaches the endstop position.

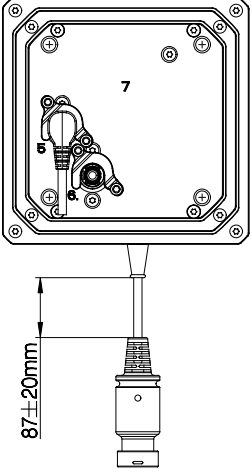
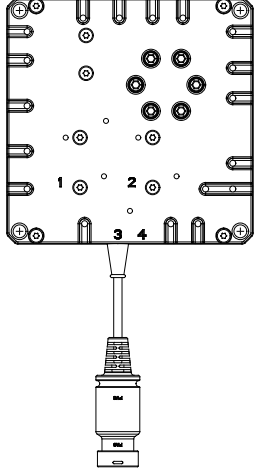
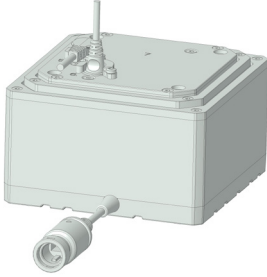
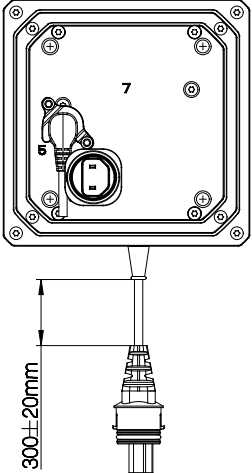
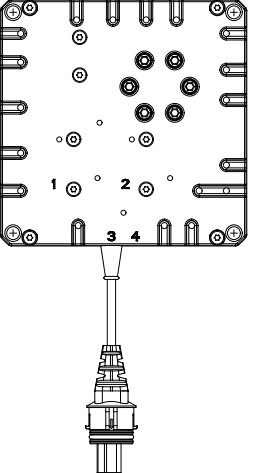
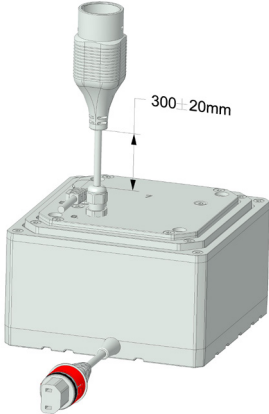
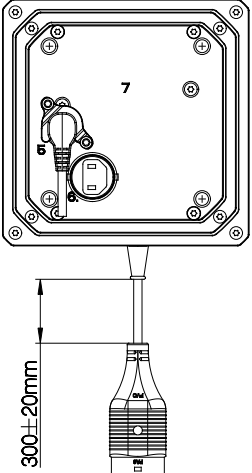
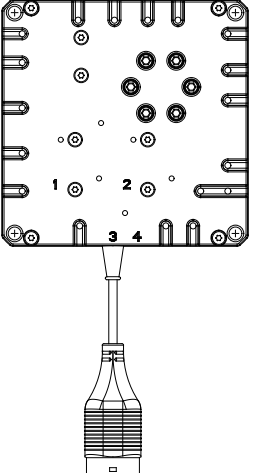
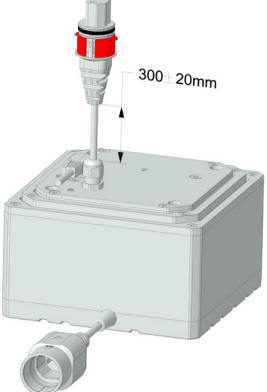


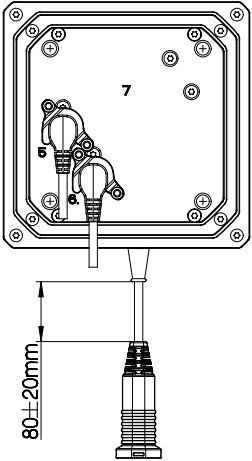
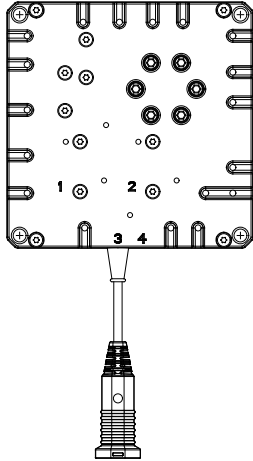
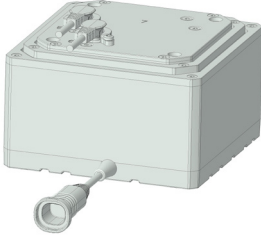
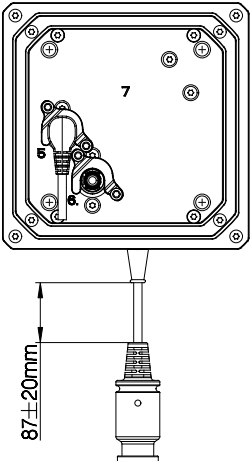
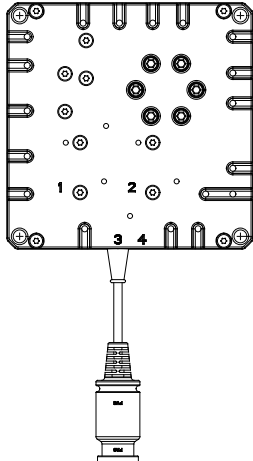
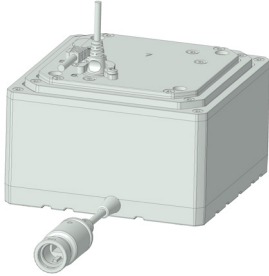
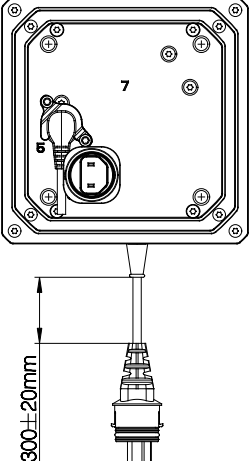
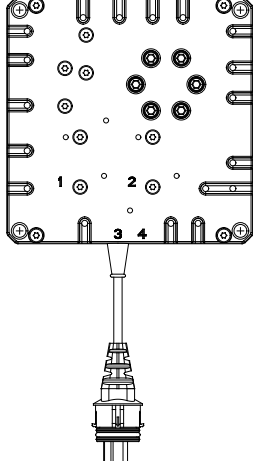
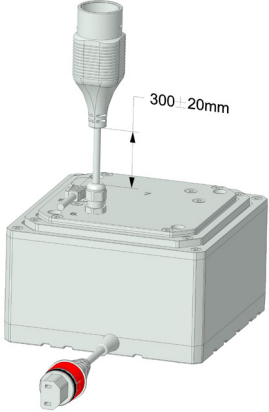
## Cable connections overview

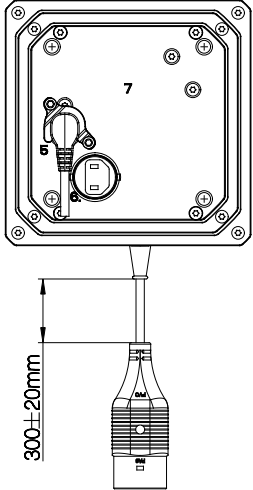
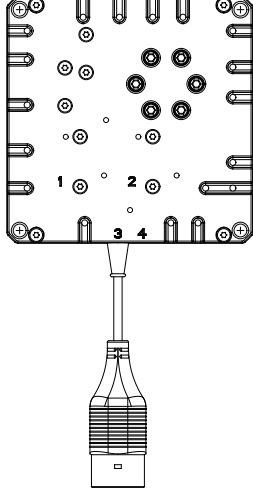
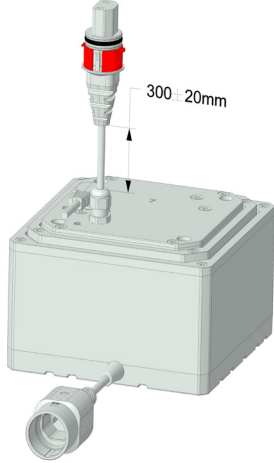
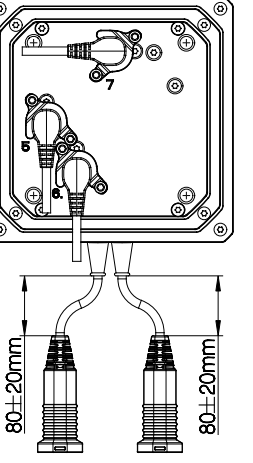
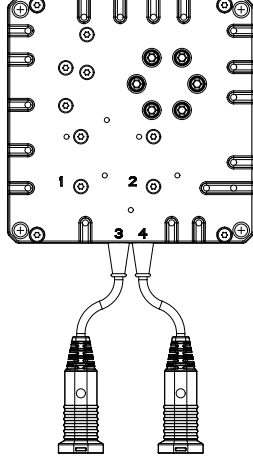
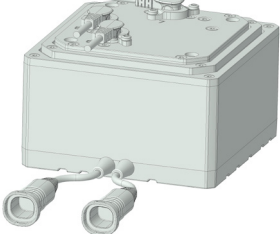
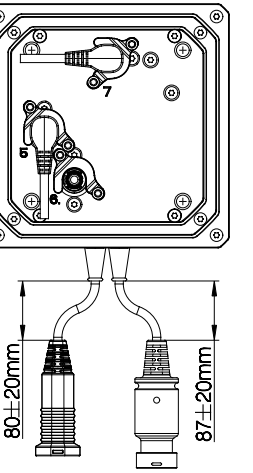
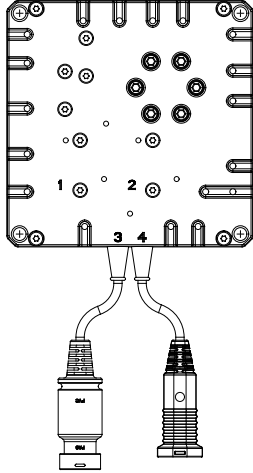
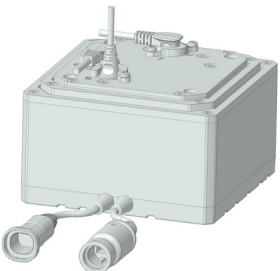
3-stage is used as examples but variants are also applicable for 2-stage.

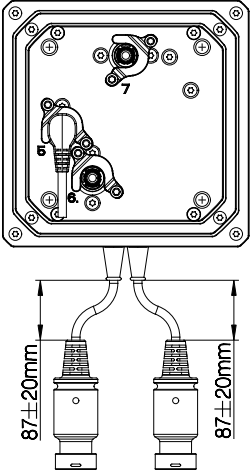
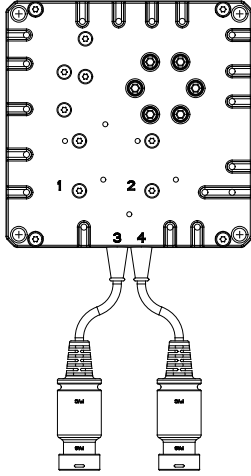
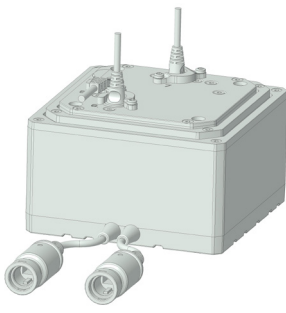
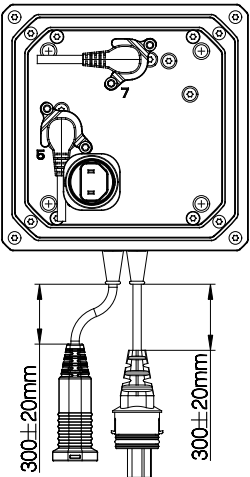
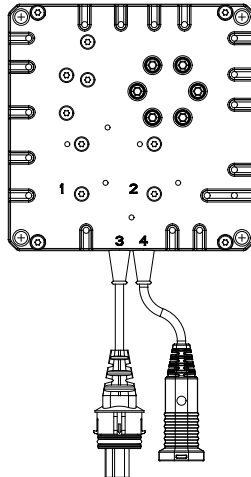
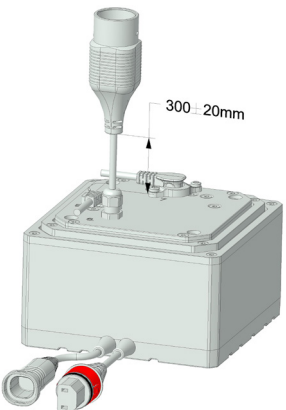
This overview shows all possible cable connections, but please notice that some variants are upon request.

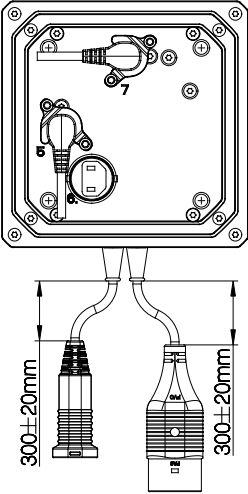
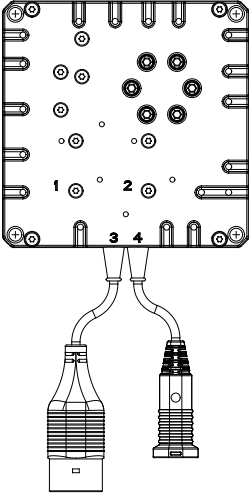
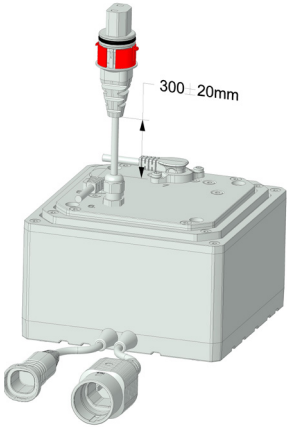
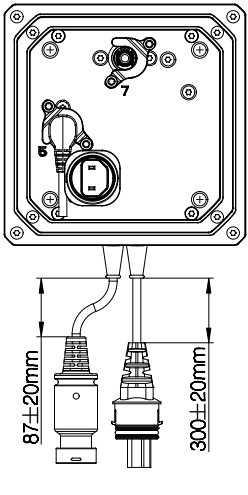
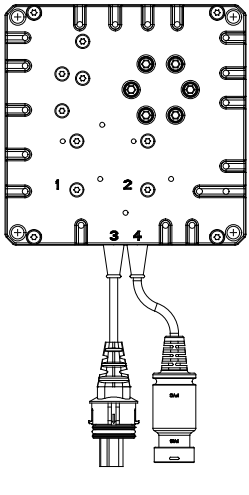
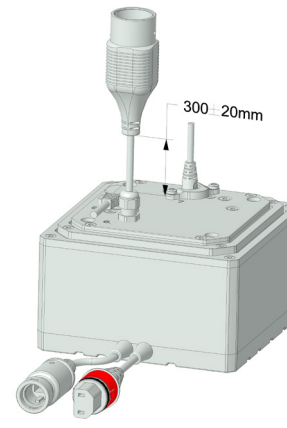
Variant	Top plate Drawing no.:1002W9005		Side entry Drawing no.:1002W9005	Model view
<b>T000</b>				
Connections	5: Motor			
<b>T001</b>				
Connections	5: Motor			Including protective grounding cable
<b>T100</b>				
Connections	5: Motor 6: Minifit through	↔	3: Minifit through	

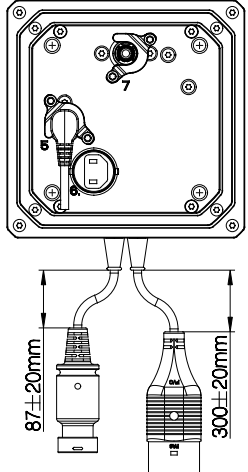
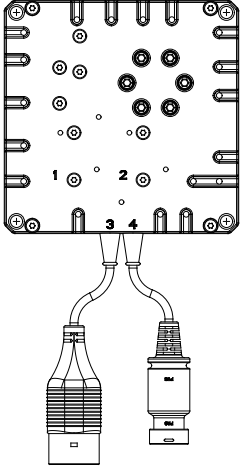
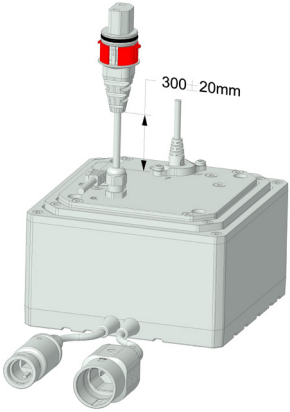
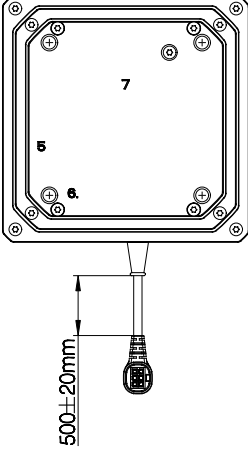
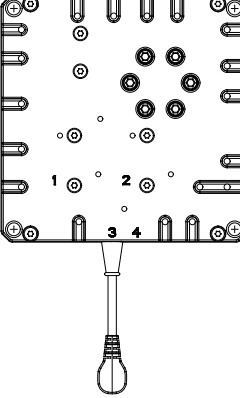
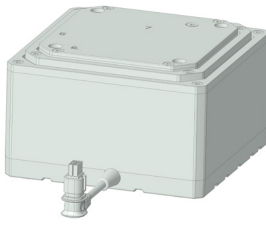
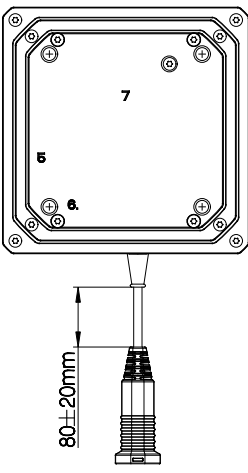
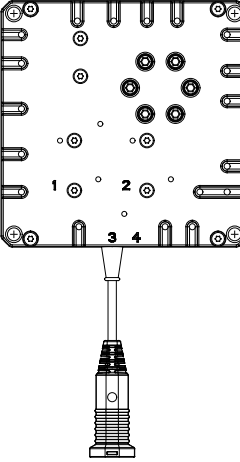
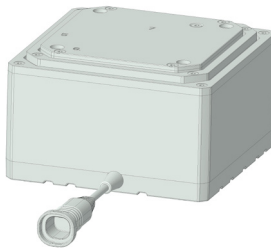
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>T200</b>			
Connections	5: Motor 6: HB through	↔ 3: HB through	
<b>T030</b>			 <p data-bbox="1118 1263 1422 1357">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 1-2 pin	↔ 3: Mains through 1-2 pin	
<b>T040</b>			 <p data-bbox="1118 1883 1422 1977">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 2-2 pin	↔ 3: Mains through 2-2 pin	

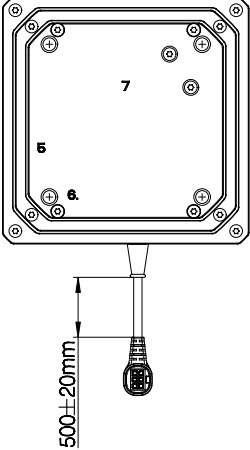
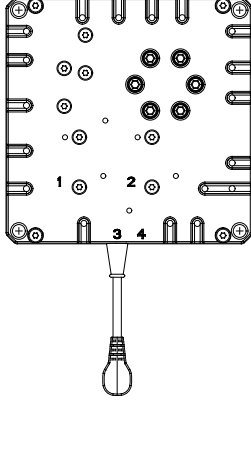
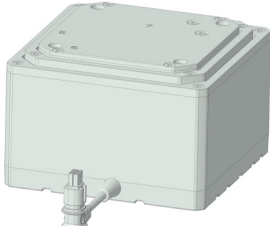
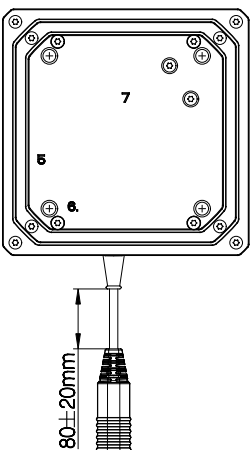
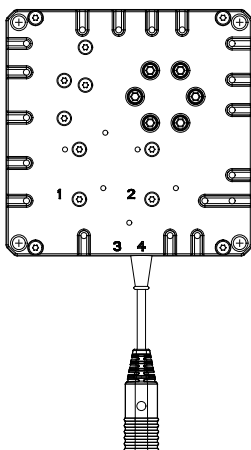
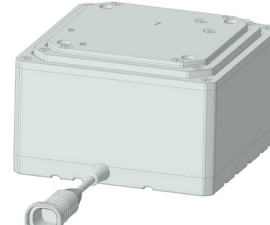
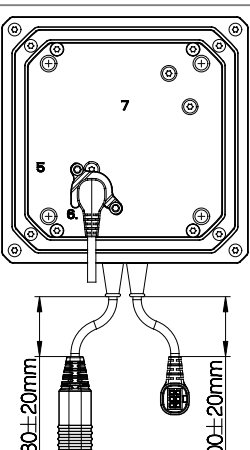
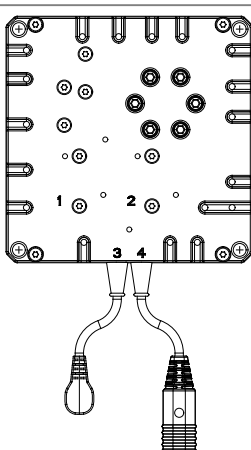
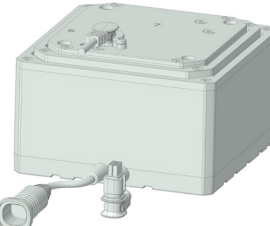
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>T101</b>			
Connections	5: Motor 6: Minifit through	↔ 3: Minifit through	Including protective grounding cable
<b>T201</b>			
Connections	5: Motor 6: HB through	↔ 3: HB through	Including protective grounding cable
<b>T031</b>			 <p data-bbox="1118 1839 1422 1928">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 1-2 pin	↔ 3: Mains through 1-2 pin	Including protective grounding cable

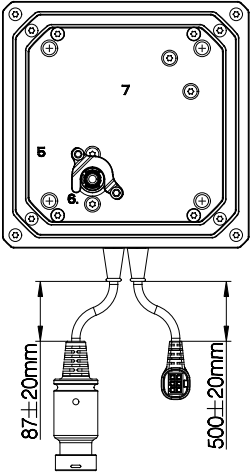
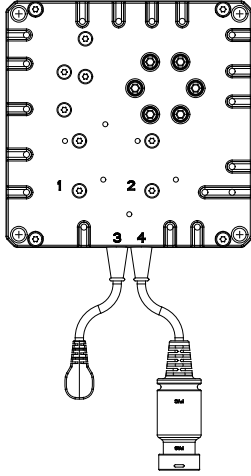
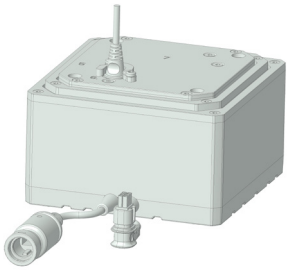
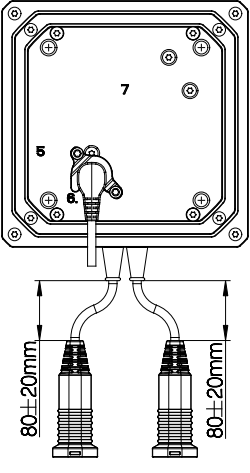
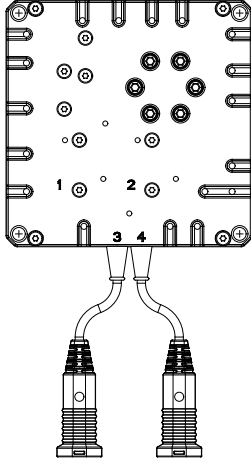
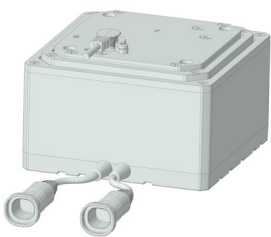
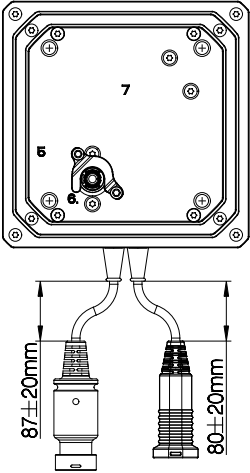
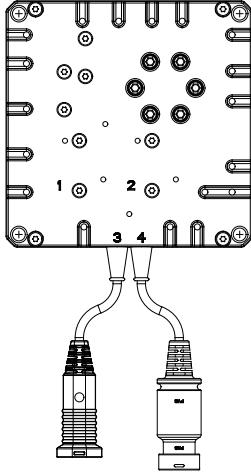
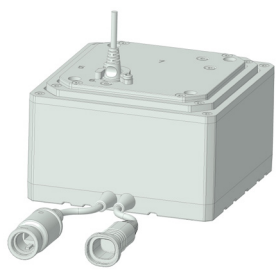
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>T041</b>			 <p data-bbox="1118 689 1422 786">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 2-2 pin	↔ 3: Mains through 2-2 pin	Including protective grounding cable
<b>T110</b>			
Connections	5: Motor 6: Minifit through (top) 7: Minifit through (top)	↔ 3: Minifit through (side) ↔ 4: Minifit through (side)	
<b>T120</b>			
Connections	5: Motor 6: HB through 7: Minifit through	↔ 3: HB through ↔ 4: Minifit through	

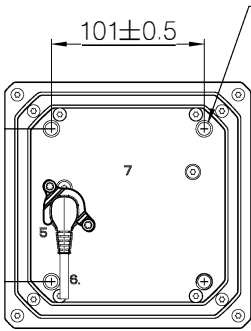
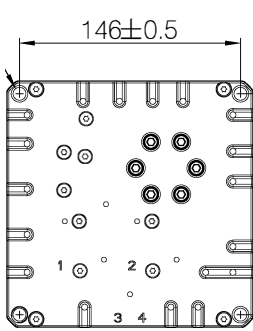
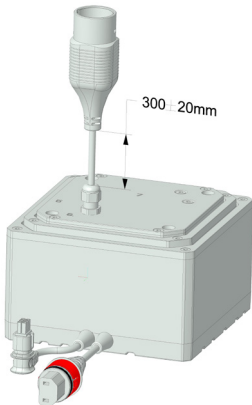
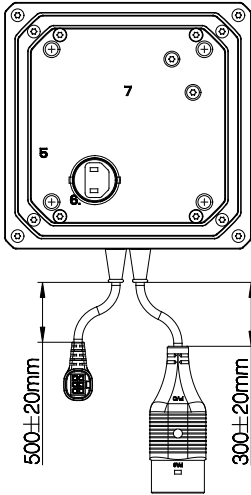
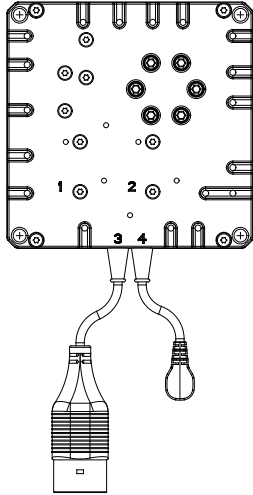
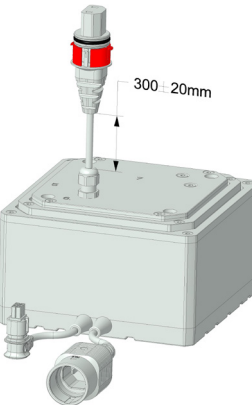
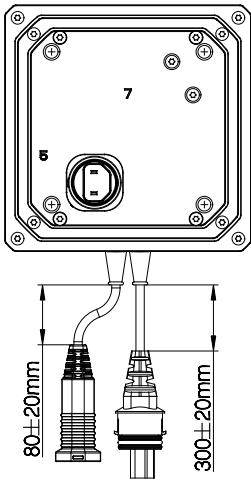
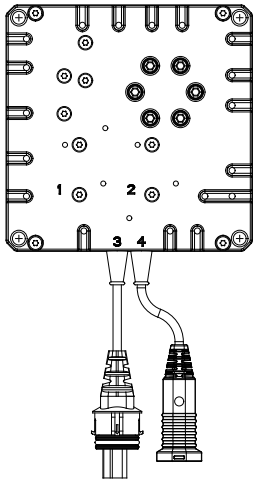
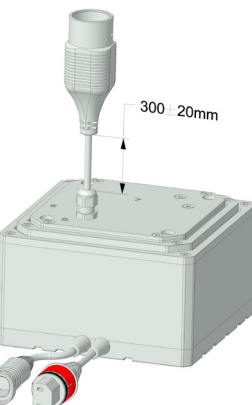
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<p><b>T220</b></p>			
<p>Connections</p>	<p>5: Motor 6: HB through (top) 7: HB through (top)</p>	<p>↔ 3: HB through (side) ↔ 4: HB through (side)</p>	
<p><b>T130</b></p>			 <p>Note: With mains through option, the top plate will point downwards.</p>
<p>Connections</p>	<p>5: Motor 6: Mains through 1-2 pin 7: Minifit through</p>	<p>↔ 3: Mains through 1-2 pin ↔ 4: Minifit through</p>	

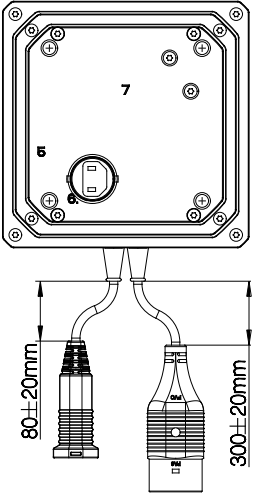
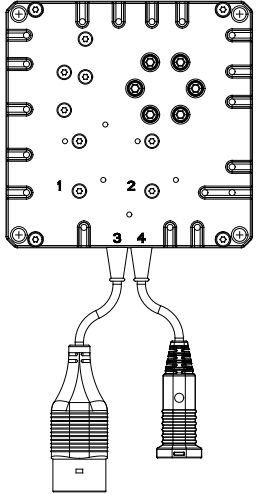
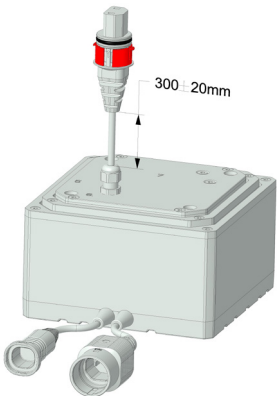
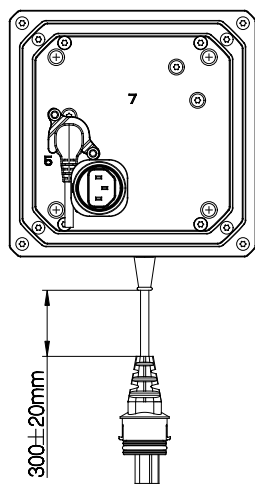
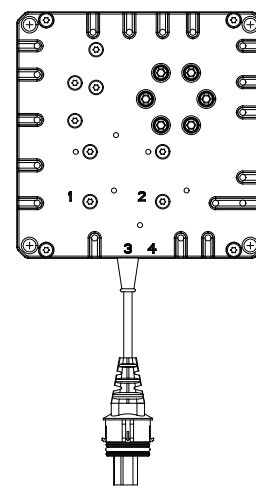
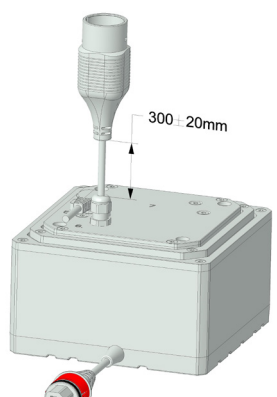
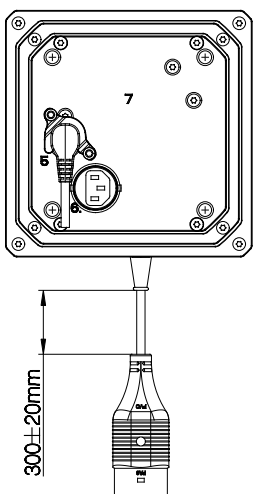
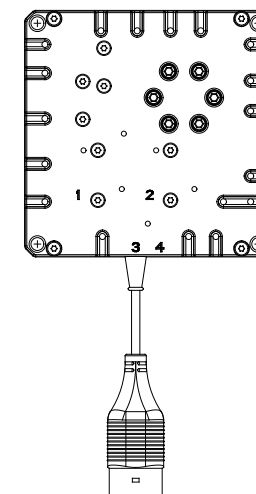
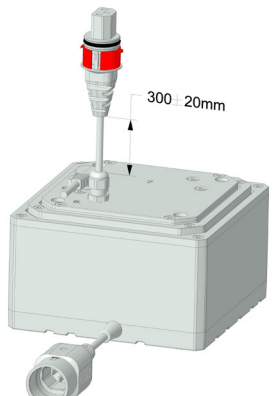
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>T140</b>			 <p data-bbox="1118 667 1422 757">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 2-2 pin 7: Minifit through	↔ 3: Mains through 2-2 pin ↔ 4: Minifit through	
<b>T230</b>			 <p data-bbox="1118 1328 1422 1417">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 1-2 pin 7: HB through	↔ 3: Mains through 1-2 pin ↔ 4: HB through	

Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<p><b>T240</b></p>			 <p>Note: With mains through option, the top plate will point downwards.</p>
<p>Connections</p>	<p>5: Motor 6: Mains through 2-2 pin 7: HB through</p>	<p>↔ 3: Mains through 2-2 pin ↔ 4: HB through</p>	
<p><b>S300</b></p>			
<p>Connections</p>		<p>3: Motor supply</p>	
<p><b>S500</b></p>			
<p>Connections</p>		<p>3: Motor supply</p>	

Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>S301</b>			
Connections		3: Motor supply	Including protective grounding cable
<b>S501</b>			
Connections		3: Motor supply	Including protective grounding cable
<b>S310</b>			
Connections	6: Minifit through	3: Motor supply ↔ 4: Minifit through	

Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
S320			
Connections	6: HB through	↔ 3: Motor supply 4: HB through	
S510			
Connections	6: Minifit through	↔ 3: Motor supply 4: Minifit through	
S520			
Connections	6: HB through	↔ 3: Motor supply 4: HB through	

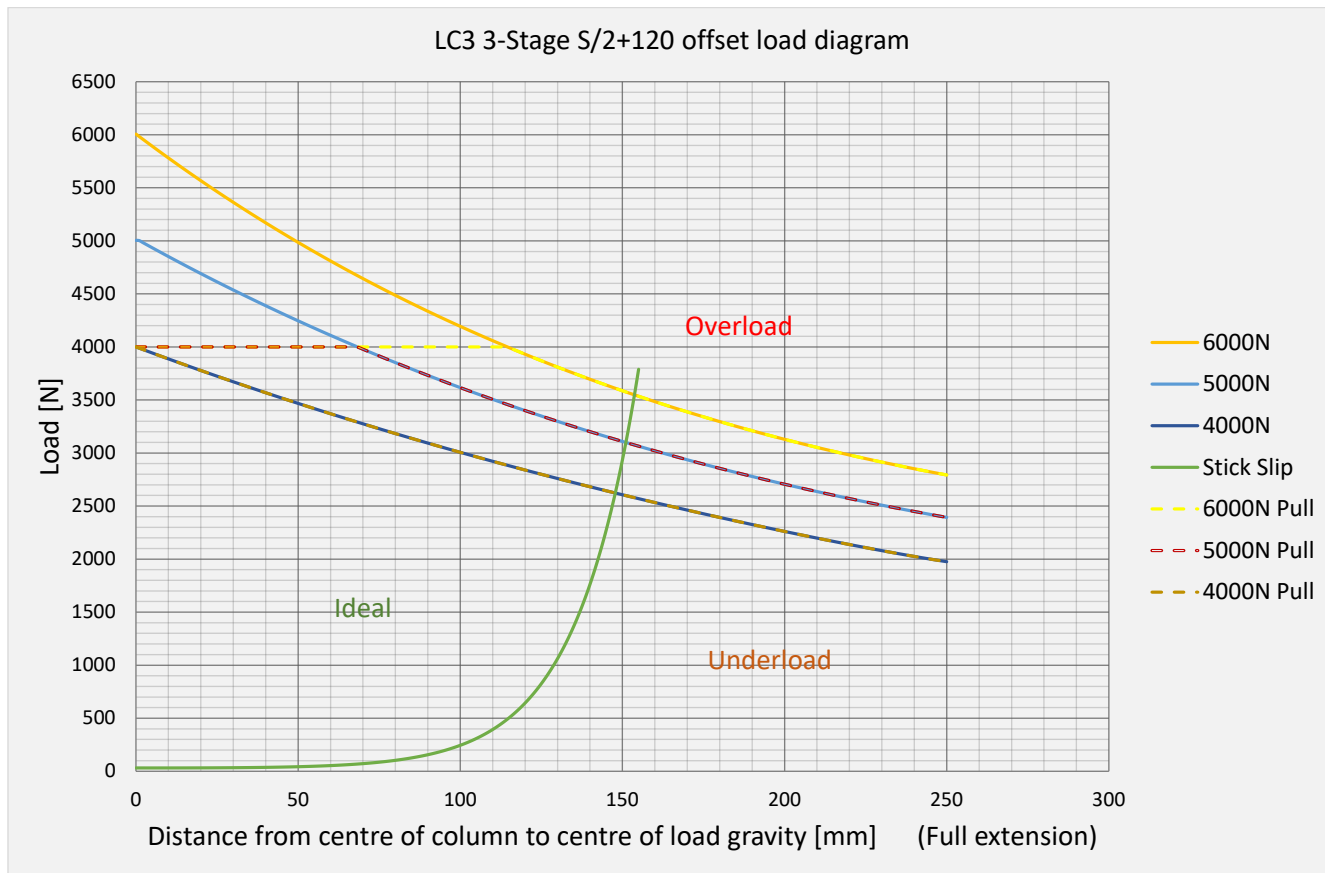
Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>S330</b>			 <p data-bbox="1118 663 1422 757">Note: With mains through option, the top plate will point downwards.</p>
Connections	6: Mains through 1-2 pin	↔ 3: Mains through 1-2 pin 4: Motor	
<b>S340</b>			 <p data-bbox="1118 1279 1422 1373">Note: With mains through option, the top plate will point downwards.</p>
Connections	6: Mains through 2-2 pin	↔ 3: Mains through 2-2 pin 4: Motor	
<b>S530</b>			 <p data-bbox="1118 1895 1422 1989">Note: With mains through option, the top plate will point downwards.</p>
Connections	6: Mains through 1-2 pin	↔ 3: Mains through 1-2 pin 4: Motor	

Variant	Top plate Drawing no.:1002W9005	Side entry Drawing no.:1002W9005	Model view
<b>S540</b>			 <p data-bbox="1118 629 1422 719">Note: With mains through option, the top plate will point downwards.</p>
Connections	6: Mains through 2-2 pin	↔ 3: Mains through 2-2 pin 4: Motor	
<b>T051</b>			 <p data-bbox="1118 1249 1422 1339">Note: With mains through option, the top plate will point downwards.</p>
Connections	5: Motor 6: Mains through 1-3 pin with earth	↔ 3: Mains through 1-3 pin	
<b>T061</b>			
Connections	5: Motor 6: Mains through 2-3 pin with earth	↔ 3: Mains through 2-3 pin	

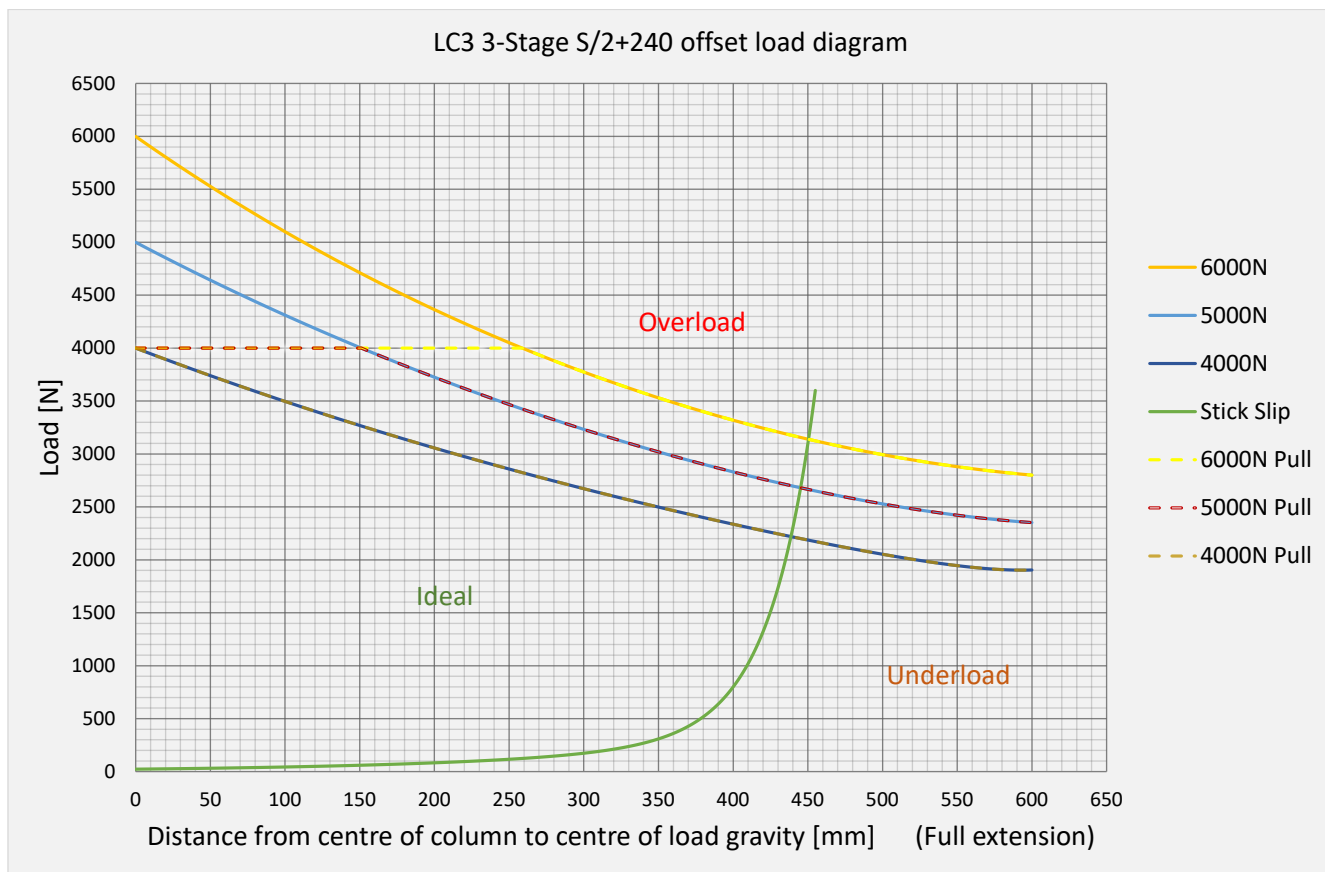
## Speed, load and current curves

Bending load curve including off center load

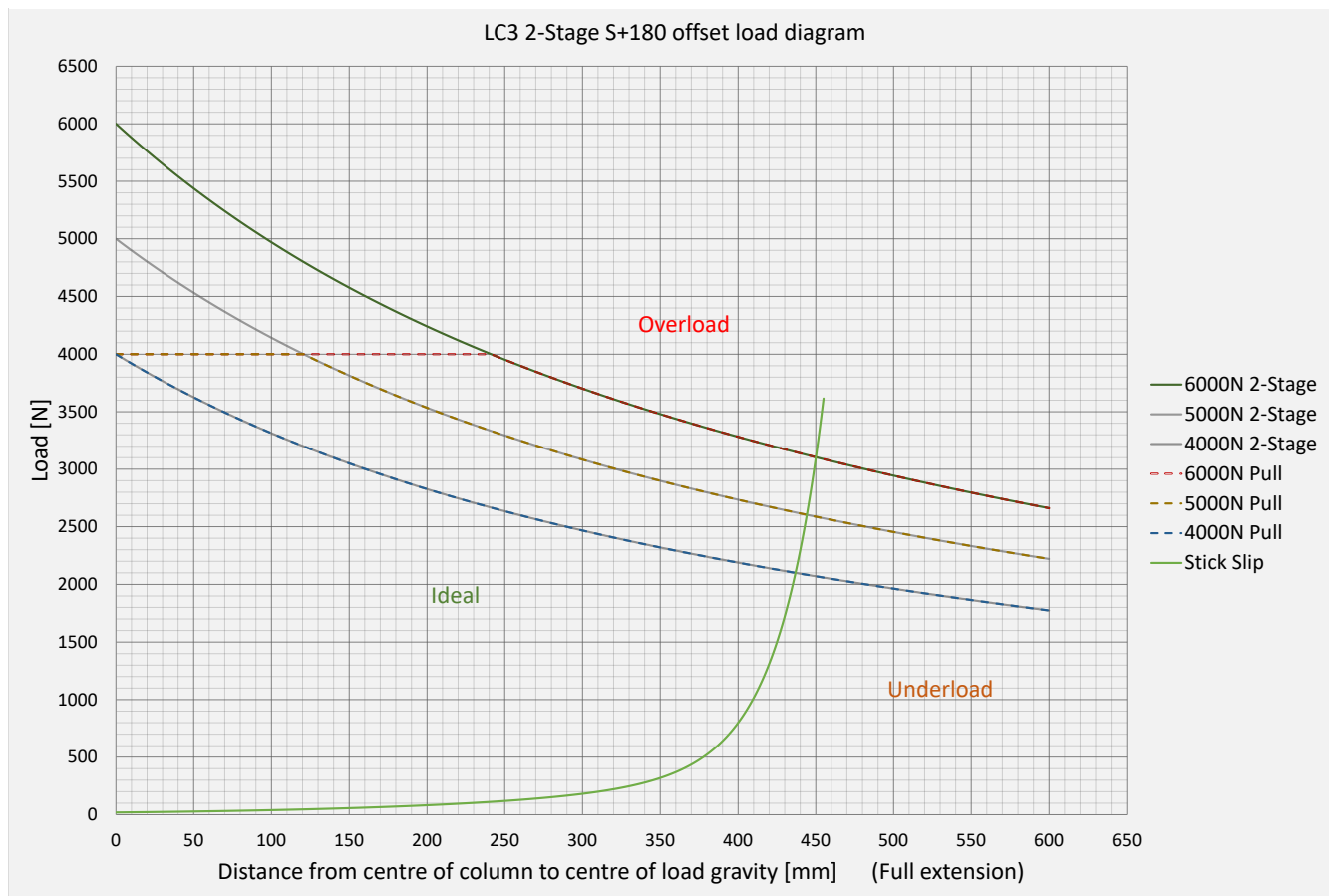
### Load in push: 4,000 N, 5,000 N, 6,000 N, built-in dimension: S/2+120 (3-stage)



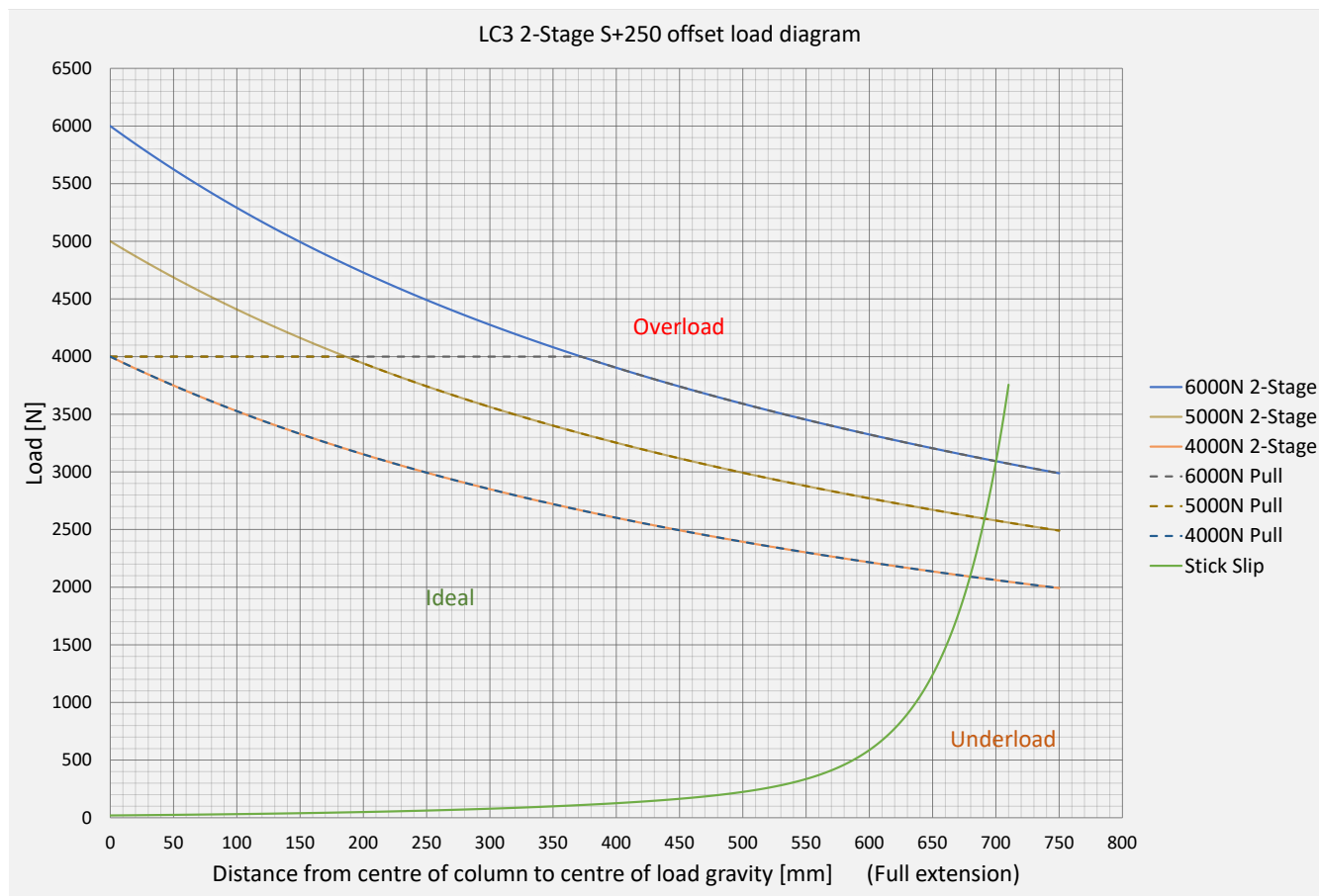
### Load in push: 4,000 N, 5,000 N, 6,000 N, built-in dimension: S/2+240 (3-stage)



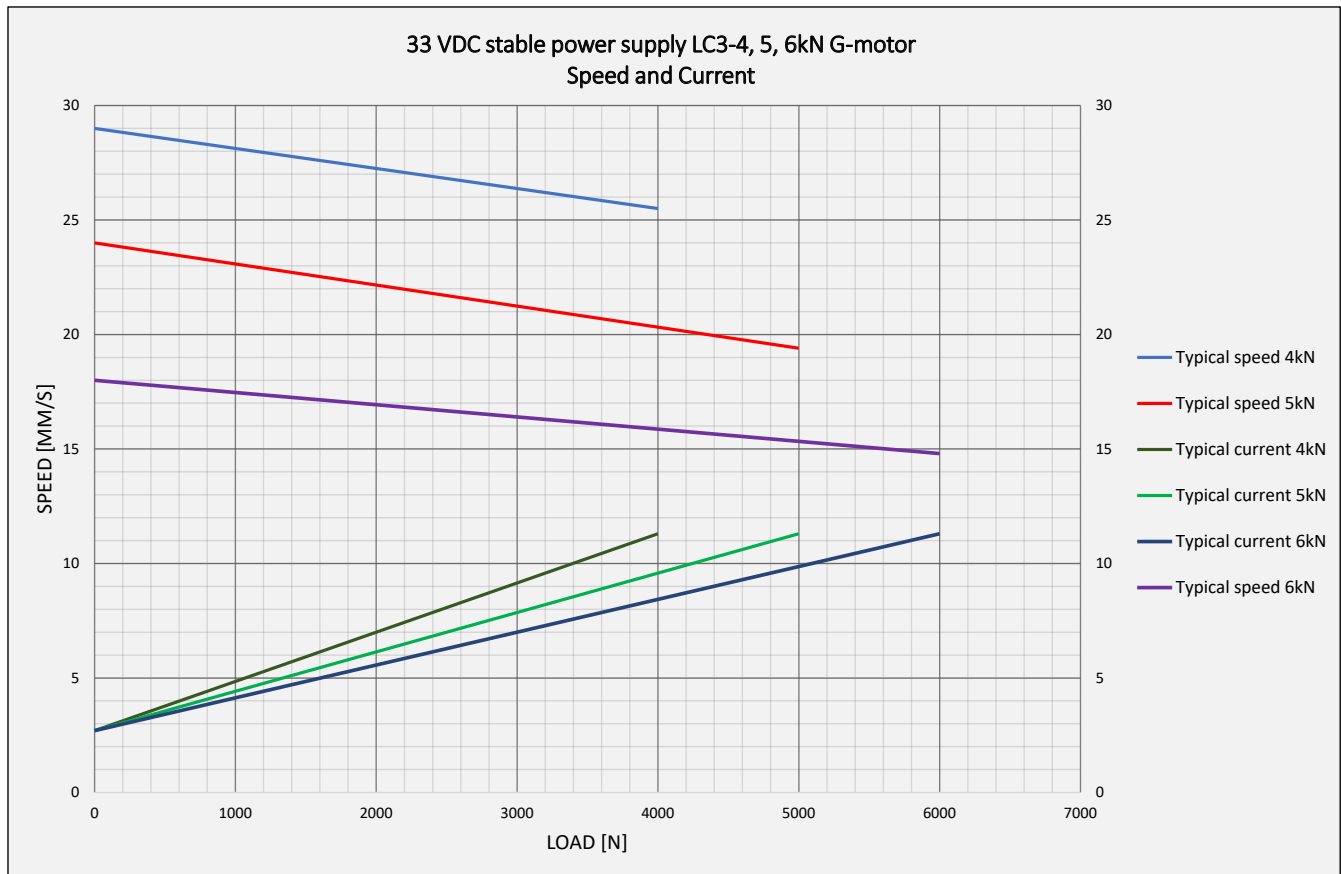
### Load in push: 4,000 N, 5,000 N, 6,000 N, built-in dimension: S+180 (2-stage)



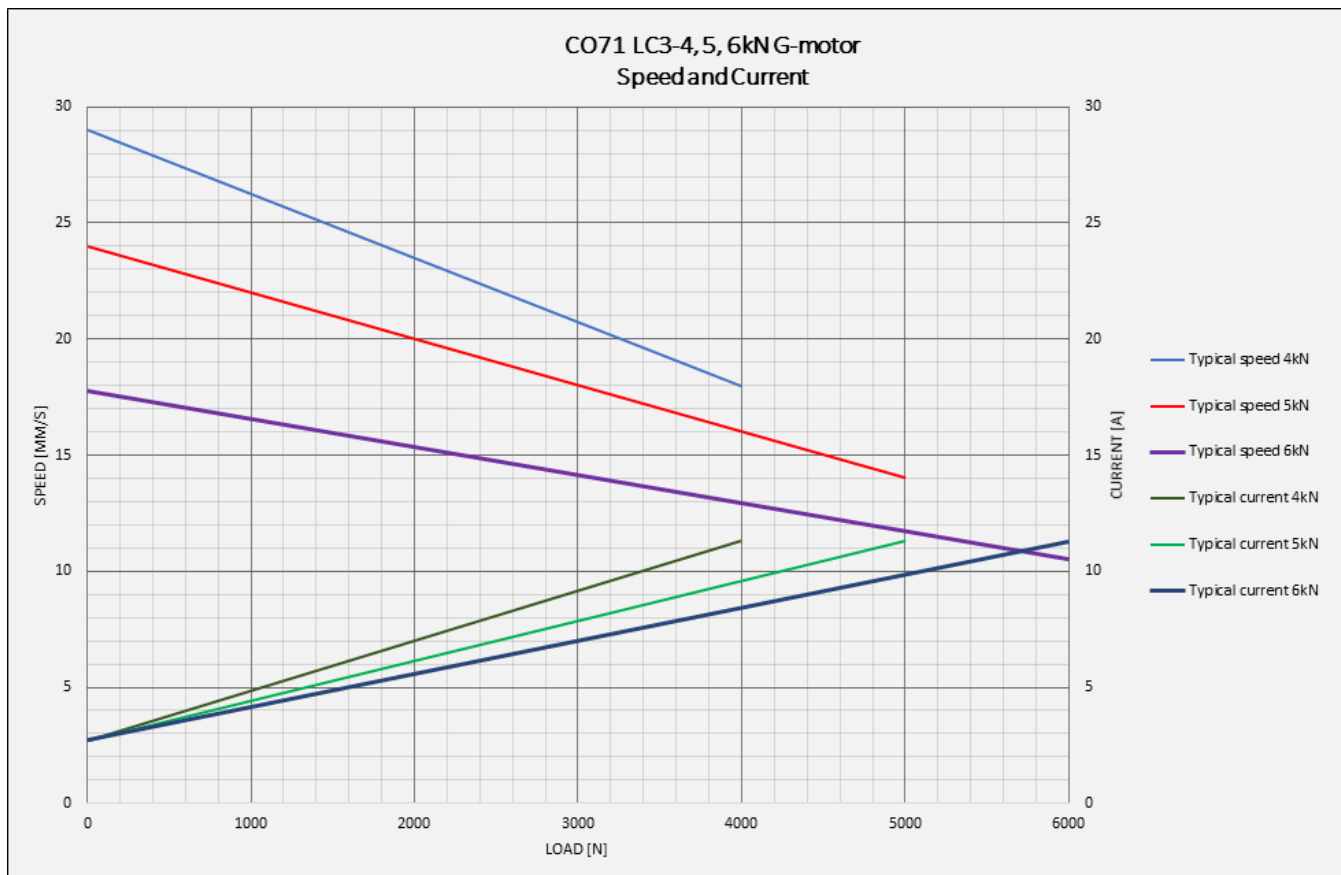
### Load in push: 4,000 N, 5,000 N, 6,000 N, built-in dimension: S+250 (2-stage)



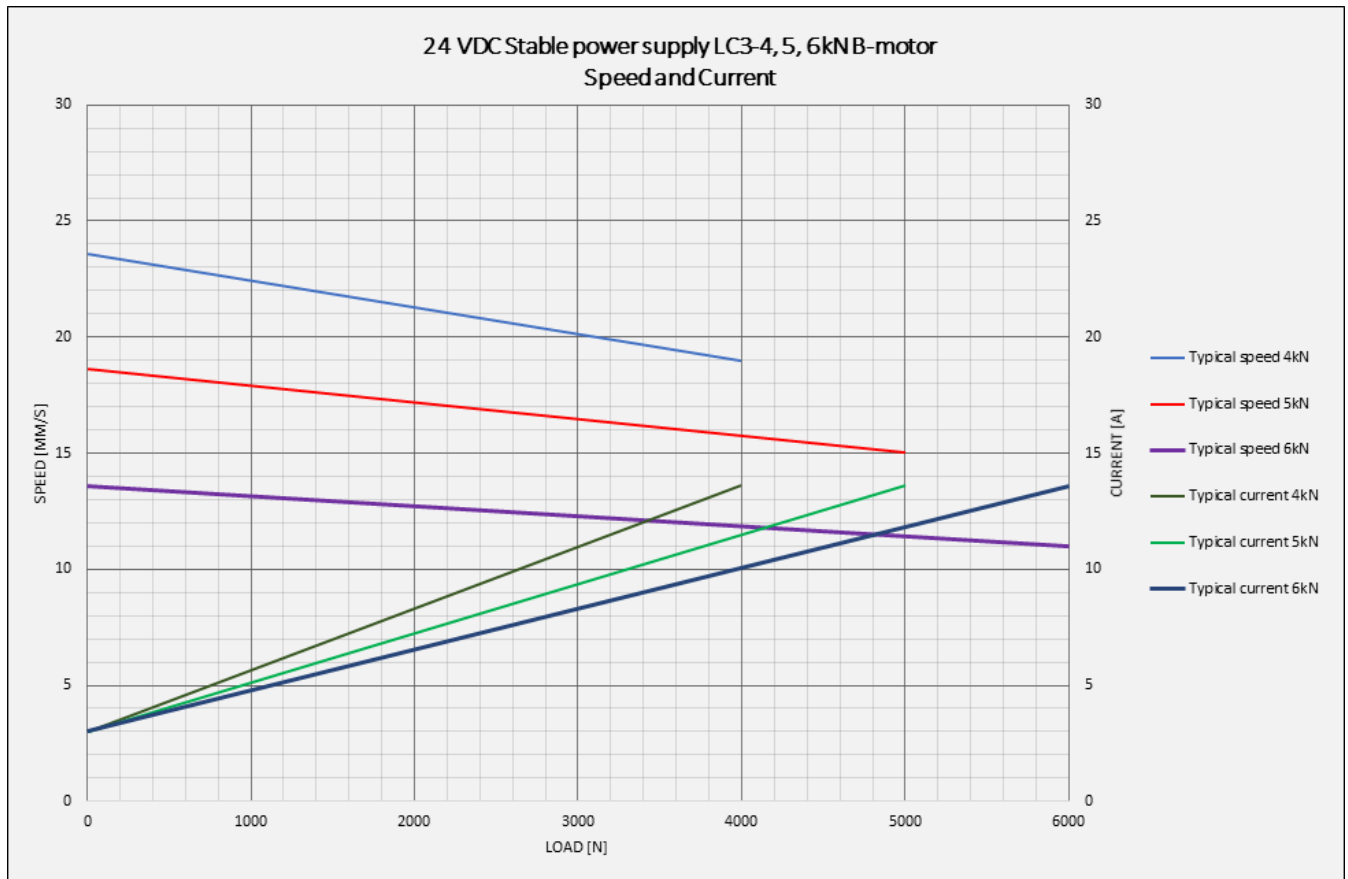
Load in push: 4,000 N, 5,000 N, 6,000 N – LC3 with stable power supply, type G-motor



Load in push: 4,000 N, 5,000 N, 6,000 N – LC3 in a system with CO71



Load in push: 4,000 N, 5,000 N, 6,000 N - LC3 with stable power supply, type B motor



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