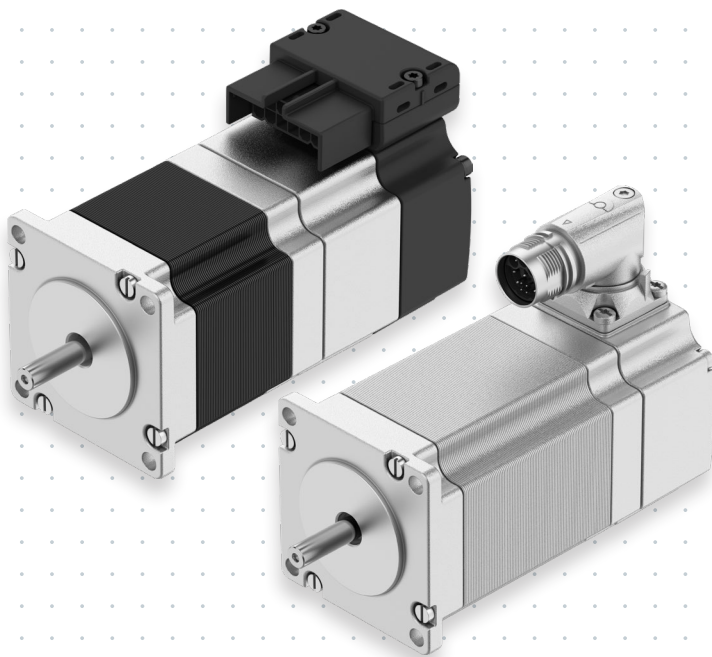




## Stepper motors EMMB-ST and EMMT-ST



### Highlights

- 2-phase hybrid technology – newly designed!
- Real servo operation with field weakening function for increased performance
- Absolute encoder, single or multi-turn (without battery)
- Simple connection technology (OCP: one cable plug) with hybrid cable: a common motor and connecting cable for supply and encoder
- With or without holding brake
- Motor flange and shaft dimension NEMA 17 / 23 / 34
- "Electronic rating plate" with motor correction table for perfect control and quiet running characteristics
- Length of cable up to 25 m

**The new, optimised EMMB-ST and EMT-ST stepper motor series together with the servo drive controller CMMT-ST-MP offers you a perfect servo system at an attractive price. Experience this new dimension to stepper motors!**

### Stepper motors EMMB-ST

Cost-effective basic range for applications with straightforward requirements, particularly suitable for series machine builders and for applications in Electronics and Light Assembly.

- 3 flange sizes:  
 $M_H$ : 0.25 ... 6.6 Nm
- OCP cable (one cable plug) with space-saving plug, can be positioned to the front or rear
- Motor in IP20 (shaft in IP40)

### Stepper motors EMT-ST

Technology series for higher requirements for the IP rating and solid connectivity, with UL certification.

- 3 flange sizes:  
 $M_H$ : 0.25 ... 9.4 Nm
- OCP cable (one cable plug) with solid M17 plug, can be rotated 310°
- Motor in IP65 (shaft in IP40)

### Engineering tools

Save time with our engineering tools for the optimum solution:

- Create the optimum drive package quickly and reliably with Electric Motion Sizing (EMS)
- Commissioning is quick and easy with the Festo Automation Suite (FAS)



**Technical data**

Type	EMMB-ST-42		EMMB-ST-57		EMMB-ST-87	
Flange size	42		57		87	
Length	S	L	M	L	S	M
Nominal operating voltage [V]	48		48		48	
Continuous stall current [A]	2.0	3.7	6.1	5.8	9.5	8.2
Nominal motor power [W]	17	49	81	83	142	87
Motor holding torque [Nm]	0.25	0.63	1.05	1.8	2.4	6.6
Peak torque [Nm]	0.25	0.63	1.1	2.1	2.7	6.8
Max. speed [1/min]	2700	3200	2600	1500	2200	600
Brake holding torque [Nm]	0.63		1.74		4.26	
Ambient temperature [°C]	0 ... 40	-15 ... 40	-15 ... 40		-15 ... 40	

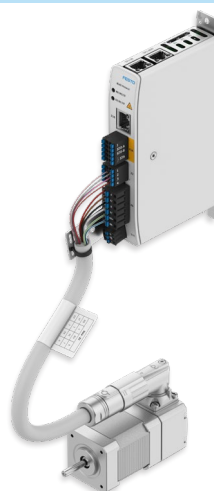
Type	EMMT-ST-42		EMMT-ST-57		EMMT-ST-87		
Flange size	42		57		87		
Length	S	L	M	L	S	M	L
Nominal operating voltage [V]	48		48		48		
Continuous stall current [A]	2.0	3.7	6.6	6.1	9.5	8.2	10.0
Nominal motor power [W]	17	56	87	86	159	87	126
Motor holding torque [Nm]	0.25	0.63	1.12	1.86	2.4	6.6	9.4
Peak torque [Nm]	0.25	0.63	1.1	2.1	2.7	6.8	9.4
Max. speed [1/min]	2700	3200	2600	1500	2200	600	430
Brake holding torque [Nm]	0.63		1.74		4.26		
Ambient temperature [°C]	0 ... 40	-15 ... 40	-15 ... 40		-15 ... 40		

**Electrical connection**

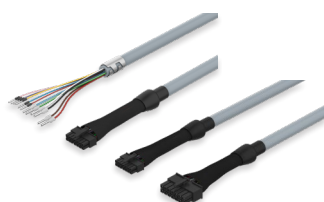
- Simple connection technology (OCP: one cable plug) with hybrid cable: a common motor and connecting cable for supply and encoder
- Cable length between servo drive controller and motor up to 25 m



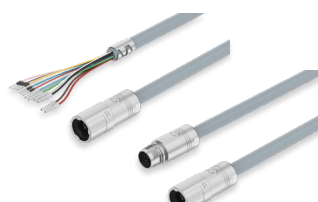
EMMB-ST with CMMT-ST-MP



EMMT-ST with CMMT-ST-MP



NEBM-L5G14, NEBM-L10G14



NEBM-M17G12

Suitable motor cables