

**Axial kit  
EAMM-A-S...-...A/P-G2**

**1. Intended use**

Axial kit EAMM-A-S...-...A/P-G2:  
Connecting an axis to a motor in axial configuration to the driven shaft  
(→ Section 9).

**2. Safety instructions and notes on mounting**

**Warning**

- Unexpected movement of components.  
Injury due to impacts or pinching.
- Switch off power supply before mounting work.
  - Observe the safety instructions (→ Applicable documents).

**Note**

- Incorrect mounting can cause malfunction and material damage.
- Observe tightening torques (→ Section 7).
  - Leave lubricant film on the screws.
  - Clean shafts. The coupling only grips without sliding on a dry and grease-free shaft surface.
  - Maintain alignment of the coupling hubs **1** (→ Section 6).
  - Support combination (→ Section 8):
    - if there are far-protruding and heavy motor attachments
    - in the event of severe vibrations and oscillation/shock loads.
- Each time after disconnecting or turning the motor:
- Start homing of the shaft.

**Information**

- Applicable documents**
- Motor operating instructions
  - Shaft operating instructions

The kit contains the maximum mounting attachments that may be required.

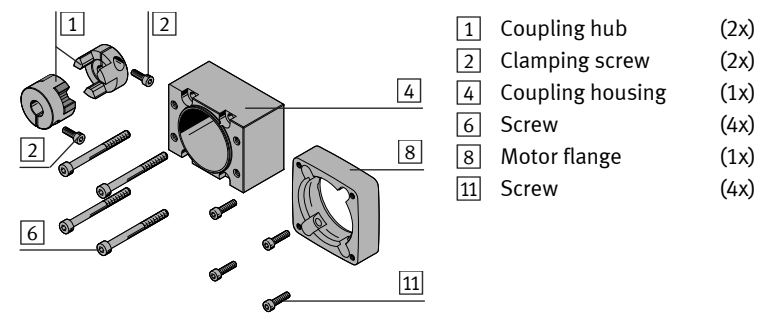
- Select required mounting components (→ Section 7).

There are two mounting variants (A/B).

EAMM-A...-G2	Mounting variant
S38-40A/-40P/-42A	B
S38-55A/-57A/-60P/-67A	A
S48-55A/-57A	B
S48-60P /70A/-87A	A
S62-70A/-80P/-87A	B
S62-100A/-140A	A
S95-100A	B
S95-140A	A

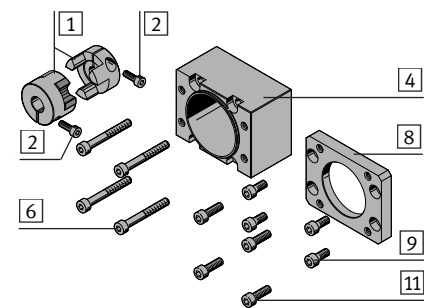
**3. Parts lists**

**3a. Parts list EAMM-A-S...-...A/P-G2 mounting variant A**



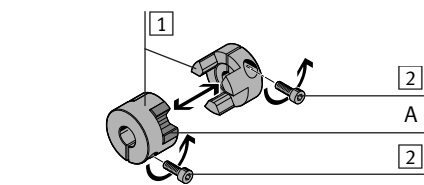
- 1** Coupling hub (2x)
- 2** Clamping screw (2x)
- 4** Coupling housing (1x)
- 6** Screw (4x)
- 8** Motor flange (1x)
- 11** Screw (4x)

**3b. Parts list EAMM-A-S...-...A/P-G2 mounting variant B**

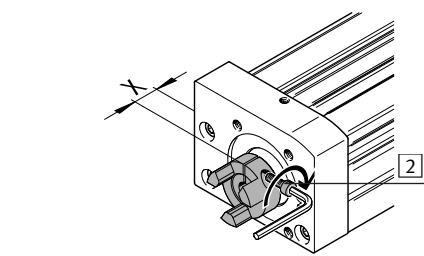
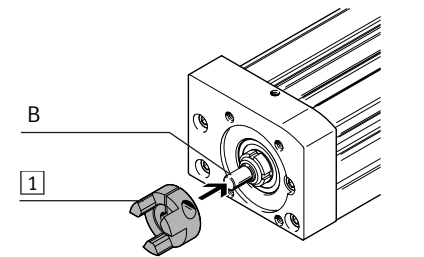


- 1** Coupling hub (2x)
- 2** Clamping screw (2x)
- 4** Coupling housing (1x)
- 6** Screw (4x)
- 8** Motor flange (1x)
- 9** Screw (4x)
- 11** Screw (4x)

**4. Preassembly of the coupling**



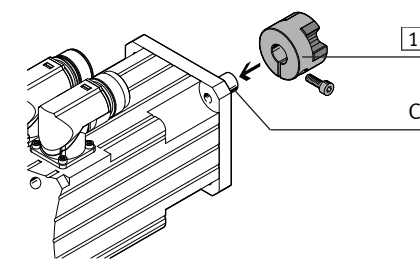
- Pull apart the coupling.
- Press the ring gear (A) onto one of the two coupling hubs **1**.
- Unscrew clamping screws **2**.
- Push the coupling hub **1** with the matching drill hole onto the drive shaft (B).



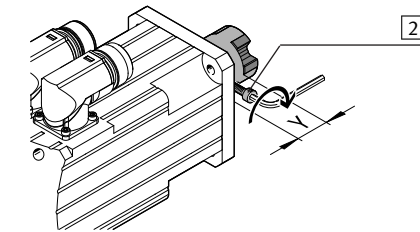
- For accurate alignment:
- Maintain distance (X) (→ Section 6).
  - Tighten clamping screw **2**.

Check: The coupling hub **1** fits through the motor flange **8** (→ Section 4a) otherwise (→ Section 4b).

**4a. In the case of motor flange 8 with large drill hole**

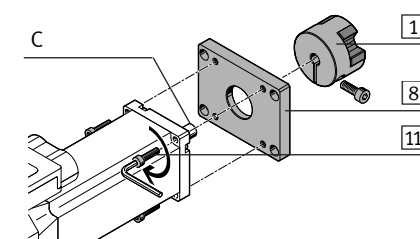


- Push the coupling hub **1** with the matching drill hole onto the drive shaft (C).

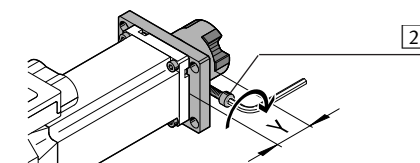


- For accurate alignment:
- Maintain distance (Y) (→ Section 6).
  - Tighten clamping screw **2**.

**4b. In the case of motor flange 8 with small drill hole**



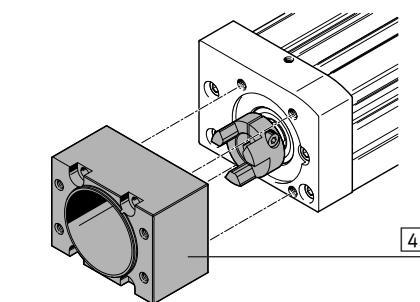
- Fasten the motor with the screws **11** to the motor flange **8**.<sup>1)</sup>
- Push the coupling hub **1** with the matching drill hole onto the drive shaft (C).



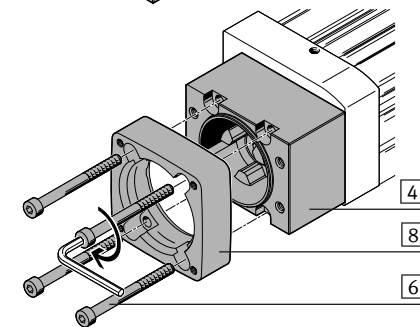
- For accurate alignment:
- Maintain distance (Y) (→ Section 6).
  - Tighten clamping screw **2**.

**5. Mounting**

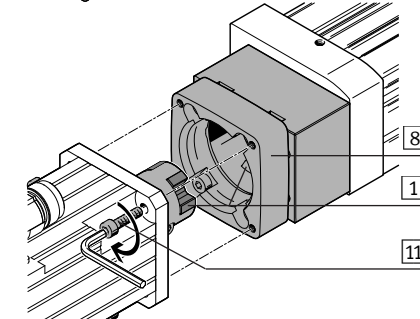
**5a. Mounting variant A**



- Place the coupling housing **4** on the shaft.

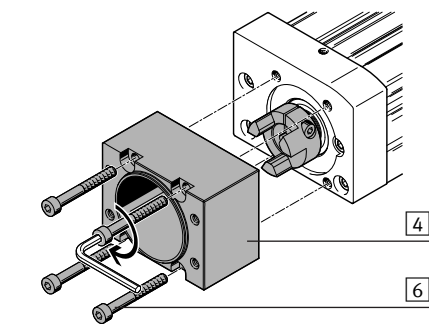


- Fasten the motor flange **8** and the coupling housing **4** to the axis with the screws **6**.

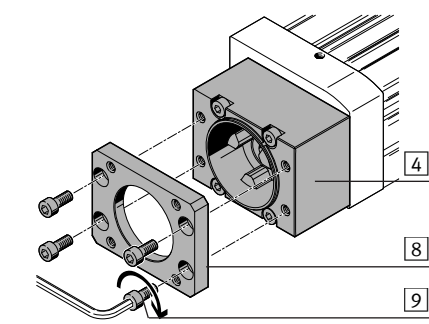


- Push motor and the shaft together.
- Check: correct position of the coupling hubs **1** in relation to each other.
- Fasten the motor with the screws **11** to the motor flange **8**.

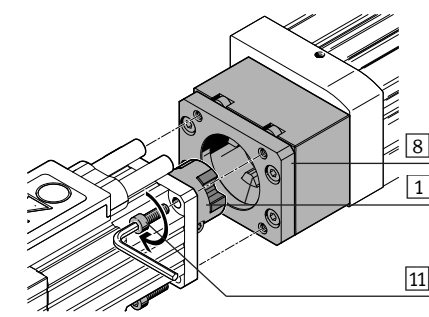
**5b. Mounting variant B**



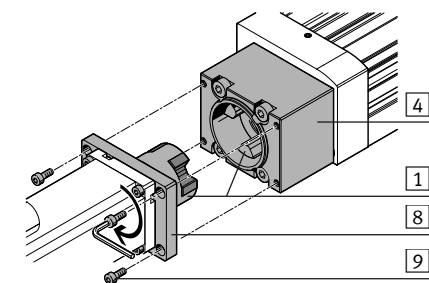
- Fasten the coupling housing **4** to the shaft with the screws **6**.



- In the case of motor flange **8** with large drill hole:
- Fasten the motor flange **8** to the coupling housing **4** with the screws **9**.



- Push motor and the shaft together.
- Check: correct position of the coupling hubs **1** in relation to each other.
- Fasten the motor with the screws **11** to the motor flange **8**.



- In the case of motor flange **8** with small drill hole:
- Push motor and the shaft together.
- Check: correct position of the coupling hubs **1** in relation to each other.
- Fasten the motor via the motor flange **8** to the coupling housing **4** with the screws **9**.

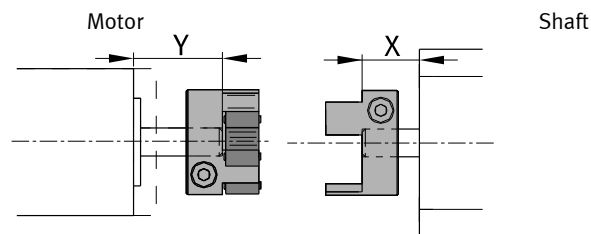
<sup>1)</sup> For kit ...-42A, the motor flange **8** is fastened to the motor with the screws **11**.

## 6. Alignment of the coupling hubs <sup>1</sup>

### → Note

Axial forces on the shafts of motor and shaft can result in failure of the encoder/brake or increased wear on the bearings.

- Maintain the distances X and Y.



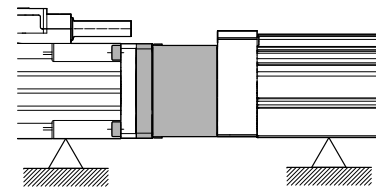
EAMM-A-	Y $\pm 0.3$ [mm]	X $\pm 0.3$ [mm]	
S38-40A-G2	16.3	16.3	
S38-40P-G2	20		
S38-42A-G2	24.3		
S38-55A-G2	20.3		
S38-57A-G2			
S38-60P-G2	30.3		
S38-67A-G2	25.3		
S48-55A-G2	20	15.8	
S48-57A-G2			
S48-60P-G2			30
S48-70A-G2			23
S48-87A-G2			26.8
S62-70A-G2	29.5	33	
S62-80P-G2	36	25	
S62-87A-G2	32.5	33	
S62-100A-G2	40	25	
S62-140A-G2	50		
S95-100A-G2	40	27.4	
S95-140A-G2	50		

## 7. Screw sizes and tightening torques $M_A$ <sup>2)</sup>

EAMM-A-	[2]	[Nm]	[6]	[Nm]	[9]	[Nm]	[11]	[Nm]		
S38-40A-G2	M4x12	4	M5x40	6	M3x8	1.2	M3x12	1.2		
S38-40P-G2					M3x12					
S38-42A-G2					M3x16					
S38-55A-G2			M4x12		4	M5x50	6	—	M5x16	6
S38-57A-G2						M5x55		—	M4x12	3
S38-60P-G2								M4x16	8	
S38-67A-G2						M6x16		8		
S48-55A-G2	M4x12	4	M5x40	6	M5x12	6	M5x16	6		
S48-57A-G2					—	M4x12	3			
S48-60P-G2			M5x55		—	M4x16	—			
S48-70A-G2			M5x50		—	M5x20	6			
S48-87A-G2			M5x55		—	M6x22	10			
S62-70A-G2	M5x18	8	M6x70	10	M6x16	10	M5x20	6		
S62-80P-G2					M6x12	—				
S62-87A-G2					M6x16	—				
S62-100A-G2			M6x80		—	M8x20	18			
S62-140A-G2			M6x90		—	M10x35	30			
S95-100A-G2	M6x20	15	M8x75	18	M8x25	18	M8x25	18		
S95-140A-G2									M8x100	—

<sup>2)</sup> Tolerance for tightening torques  $M_A$  without indication of tolerance  $\pm 20\%$

## 8. Support of the shaft-motor combination



To avoid damage:

- Support the combination so it is free from tension.

## 9. Permissible shafts and motors

### → Note

Malfunction and material damage due to overloading.

The output variables of the motor must not exceed the permissible values of the components used.

Permitted values → [www.festo.com/catalogue](http://www.festo.com/catalogue)

- Limit motor output variables accordingly.

- Derive the shaft and motor from the interface codes.

Example: EAMM-A-**S38-40A**

- Shaft interface **S38**
- Motor interface **40A**

Shaft interface	Shaft <sup>3)</sup>
S38	EGC-70-...BS, EGC-HD-125-...-BS, ELGA-BS-70
S48	EGC-80-...BS, EGC-HD-160-...-BS, ELGA-BS-80
S62	EGC-120-...-BS, EGC-HD-220-...-BS, ELGA-BS-120
S95	EGC-185-...-BS, ELGA-BS-150

Motor interface	Motor <sup>4)</sup>
40A	EMMS-AS-40
40P	EMME-AS-40
42A	EMMS-ST-42
55A	EMMS-AS-55
57A	EMMS-ST-57
60P	EMME-AS-60
67A	EMCA-EC-67
70A	EMMS-AS-70
80P	EMME-AS-80
87A	EMMS-ST-87
100A	EMME-AS-100, EMMS-AS-100
140A	EMMS-AS-140

<sup>3)</sup> Spindle axis EGC-BS/ELGA-BS-KF

<sup>4)</sup> Servo motor EMME-AS/EMMS-AS, stepper motor EMMS-ST, integrated drive EMCA-EC