## **1FK7 geared servomotors**

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#### Order No. supplements – Order codes

When ordering a geared servomotor with options, **-Z** should be added to the order number. The order code should also be specified for each additional required option. The description of the option must not be repeated in plain text in the order.

1st Order code: Gearbox type		
<ul> <li>Bevel gearbox K102 to K813</li> <li>Offset-shaft gearbox F202 to F602</li> <li>Helical gearbox C002 to C812</li> <li>Worm gearbox S002 to S402</li> <li>Complete order code for gearbox type, refer to selection and order</li> </ul>	ering data	B C D E
2nd order code, 1st and 2nd positions: Type		
<ul> <li>Foot-mounted</li> <li>Tapped hole group</li> <li>Flange (round)</li> <li>Foot-mounted and flange (round)</li> <li>Foot-mounted and tapped hole group</li> </ul>		G 1 G 2 G 3 G 5 G 6 G 6 G 6 G 6 G 6 G 6 G 6 G 6 G 6
2. order code, 3rd position: Gear shaft extension		
Helical gearbox:       Offset-shaft gearbox:         • Solid shaft with fitted key, gearbox side 5       • Hollow shaft with keyway, insertion side 5         • Hollow shaft with clamping element, shrink disk side 6, insertion side 5	<ul> <li>Bevel and worm gearboxes:</li> <li>Solid shaft with fitted key, gearbox side 4</li> <li>Hollow shaft with keyway, insertion side 4</li> <li>Hollow shaft with clamping element, shrink disk side 4, insertion side 3</li> <li>Solid shaft with fitted key, gearbox side 3</li> <li>Hollow shaft with keyway, insertion side 3</li> <li>Hollow shaft with clamping element, shrink disk side 3, insertion side 4</li> </ul>	1 3 4 5 7 8
3rd order code, 1st and 2nd positions: Type of construction/m	ounting position	
Type of construction for helical gearboxes: • IM B3 / IM B5 / IM B14 / IM B34 / IM B35 • IM B7 • IM B8 • IM B6 • IM V1 • IM V3 / IM V6 / IM V19 • IM V5 • IM V18	Mounting position for offset-shaft, bevel and w • EL 1 • EL 2 • EL 3 • EL 4 • EL 5 • EL 6 -	rorm gearboxes: H 1 H 2 H 3 H 4 H 5 H 6 H 7 H 8
<ul> <li>3rd order code, 3rd position: Connector mounting position</li> <li>Connector position on gearbox side 2, top</li> <li>Connector position on gearbox side 4, right</li> <li>Connector position on gearbox side 1, below</li> <li>Connector position on gearbox side 3, left</li> </ul>		

• Connector position on gearbox side 3, left

For a diagram of the connector mounting position, see page 4/88.

1FK7 geared servomotors

## Order No. supplements – Order codes

4th Order code: Torque bracket	for bevel and worm gearboxes					
Torque bracket position	Gearbox type and size					
Side 1, eye side 4	K102/S102	Q12	and	G23	or	G28
Side 1, eye side 3	K102/S102	Q13		G27		G24
Side 5, eye side 4	K102/S102	Q14		G23		G28
Side 5, eye side 3	K102/S102	Q15		G27		G24
Side 2, eye side 4	K102	Q16		G23		G28
Side 2, eye side 3	K102	Q17		G27		G24
Side 1, eye side 4	K202/S202	Q22		G23		G28
Side 1, eye side 3	K202/S202	Q23		G27		G24
Side 5, eye side 4	K202/S202	Q24		G23		G28
Side 5, eye side 3	K202/S202	Q25		G27		G24
Side 1, eye side 4	K302/S302	Q32		G23		G28
Side 1, eye side 3	K302/S302	Q33		G27		G24
Side 5, eye side 4	K302/S302	Q34		G23		G28
Side 5, eye side 3	K302/S302	Q35		G27		G24
Side 1, eye side 4	K402/S402	Q42		G23		G28
Side 1, eye side 3	K402/S402	Q43		G27		G24
Side 5, eye side 4	K402/S402	Q44		G23		G28
Side 5, eye side 3	K402/S402	Q45		G27		G24
Side 1, eye side 4	K513	Q52		G23		G28
Side 1, eye side 3	K513	Q53		G27		G24
Side 5, eye side 4	K513	Q54		G23		G28
Side 5, eye side 3	K513	Q55		G27		G24
Side 1, eye side 4	K613	Q62		G23		G28
Side 1, eye side 3	K613	Q63		G27		G24
Side 5, eye side 4	K613	Q64		G23		G28
Side 5, eye side 3	K613	Q65		G27		G24
Side 1, eye side 4	K713	Q72		G23		G28
Side 1, eye side 3	K713	Q73		G27		G24
Side 5, eye side 4	K713	Q74		G23		G28
Side 5, eye side 3	K713	Q75		G27		G24
Side 1, eye side 4	K813	Q82		G23		G28
Side 1, eye side 3	K813	Q83		G27		G24
Side 5, eye side 4	K813	Q84		G23		G28
Side 5, eye side 3	K813	Q85		G27		G24

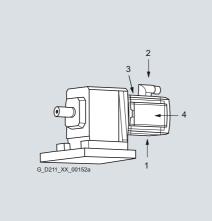
For a diagram with position of the torque bracket and position of the fixing eye, see page 4/88.

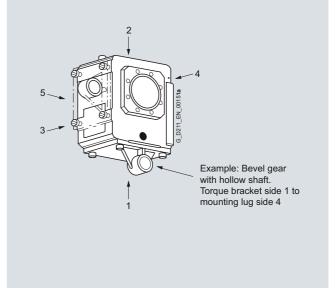
## **1FK7 geared servomotors**

#### Order No. supplements – Order codes

5th order code, other options	
Paint finish: Jet black, matt RAL9005	X01
Paint finish: Cream white RAL 9001	X02
Paint finish: Reseda green RAL 6011	X03
Paint finish: Pebble gray RAL 7032	X04
Paint finish: Sky blue RAL 5015	X05
Paint finish: Light ivory RAL 1015	X06
Paint finish: Ash gray RAL 7000	X07
Paint finish: White aluminum RAL 9006	X08
Paint finish: Gentian blue RAL 5010	X12
Paint finish: Pure orange RAL 2004	X19
Food-grade gear oil	Q90

For option Q90, the Order No. for the geared servomotor must also be changed in the 16th position from 5 to 7: 1FK7...-5A.71-1..7-Z





Connector mounting position

Gearbox sides shown with position of the torque bracket and position of the fixing eye

1FK7 geared servomotors

## Order No. supplements – Order codes

#### Permissible combinations for option G.. with H.. and Q..

Order code	Description	Permissible G options for gearbox type			Permissible H-Q options for gearbox type			
		Helical gear	Offset- shaft	Bevel gear/ worm	Helical gear	Offset- shaft	Bevel gear/ worm	
G11	Foot-mounted, solid shaft with fitted key	~			H1. to H4. H6./H7.			
G13	Footed-mounted, hollow shaft with keyway (insertion gearbox side 4)							
G14	Footed-mounted, hollow shaft with shrink disk (insertion gearbox side 4)	-						
G15	Foot-mounted, solid shaft with fitted key (gearbox side 3)	-						
G17	Footed-mounted, hollow shaft with keyway (insertion gearbox side 3)	-						
G18	Footed-mounted, hollow shaft with shrink disk (gearbox side 3)	-						
G21	Tapped hole group, solid shaft with keyway (gearbox side 4 for bevel and worm)	<b>v</b>		✓ 1)	H1./H6./H8.		H1. to H6.	
G23	Tapped hole group, hollow shaft with keyway (insertion gearbox side 5 for offset-shaft gearbox, insertion side 4 for bevel and worm)		~	<b>✓</b> 1)		H1. to H6.	H1. to H6. Q	
G24	Tapped hole group, hollow shaft with shrink disk (shrink disk on gearbox side 6 and insertion side 5 for offset-shaft gearbox; shrink disk on gearbox side 4 and insertion side 3 for bevel and worm)	-	<b>~</b>	✔ 1)	-			
G25	Tapped hole group, solid shaft with fitted key (gearbox side 3)	-		✓ 1)	-		H1. to H6.	
G27	Tapped hole group, hollow shaft with fitted key (insertion gearbox side 3)	-		✓ 1)	-		H1. to H6. Q	
G28	Tapped hole group, hollow shaft with clamping element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)	-		✓ 1)	_			
G31	Flange (round), solid shaft with fitted key (gearbox side 5 for offset-shaft gearbox; side 4 for bevel and worm)	~	~	✓ <sup>1)</sup>	H1./H5./H6.	H1. to H6.	H1. to H6.	
G33	Flange (round), hollow shaft with keyway (insertion gearbox side 4)		~	✓ 1)				
G34	Flange (round), hollow shaft with shrink disk, shrink disk on gearbox side 6 and insertion side 5 for offset-shaft gearbox; shrink disk on gearbox side 4 and insertion side 3 for bevel and worm)	-	V	✔ 1)	-			
G35	Flange (round), solid shaft with fitted key (gearbox side 3)			✔ 1)	-			
G37	Flange (round), hollow shaft with keyway (insertion gearbox side 3)			✓ 1)				
G38	Flange (round), hollow shaft with clamping ele- ment (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)			~				

## 1FK7 geared servomotors

## Order No. supplements – Order codes

#### Permissible combinations for option G.. with H..

Order code	Description	Permissible G options for gearbox type		Permissible H options for gearbox type		
		Helical gear	Bevel gear/ worm	Helical gear	Bevel gear/ worm	
G51	Foot-mounted and flange (round), solid shaft with fitted key (gearbox side 4 for bevel and worm)	✓ 1)	✓ 2)	H1./H2.	H1. to H6.	
G53	Foot-mounted and flange (round), hollow shaft with keyway (insertion gearbox side 4)		✓ 2)			
G54	Foot-mounted and flange (round), hollow shaft with clamping element (shrink disk on gearbox side 4 and insertion side 4 for bevel and worm)		<b>✓</b> 2)	-		
G55	Foot-mounted and flange (round), solid shaft with fitted key (gearbox side 3)		✓ 2)	-		
G57	Foot-mounted and flange (round), hollow shaft with keyway (insertion gearbox side 3)		✓ 2)	-		
G58	Foot-mounted and flange (round), hollow shaft with clamping element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)		✓ 2)	-		
G61	Foot-mounted and tapped hole group, solid shaft with fitted key (gearbox side 4 for bevel and worm)	V	<b>v</b>	H1./H2.	H1. to H6.	
G63	Foot-mounted and tapped hole group, hollow shaft with keyway (insertion gearbox side 4)		V		_	
G64	Foot-mounted and tapped hole group, hollow shaft with clamping element (shrink disk on gearbox side 4 and insertion side 4 for bevel and worm)		V	-		
G65	Foot-mounted and tapped hole group, solid shaft with fitted key (gearbox side 3)		V	-		
G67	Foot-mounted and tapped hole group, hollow shaft with keyway (insertion gearbox side 3)		V			
G68	Foot-mounted and tapped hole group, hollow shaft with clamping element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)		V	_		

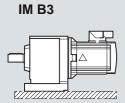
<sup>1)</sup> The flange diameter for helical gearboxes with foot mounting and flange is one diameter grade smaller in each case than the diameter for helical gearboxes with flange only (without foot mounting).

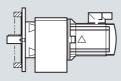
<sup>&</sup>lt;sup>2)</sup> Only for 1FK706 to 1FK710 with gearbox sizes K513 to K813 (gearbox types B5. to B8.).

**1FK7 geared servomotors** 

## Selection guides

Helical geared motors – Types of construction



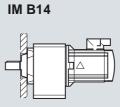


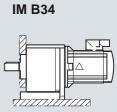
IM B5

IM B6

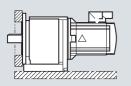
**IM V18** 

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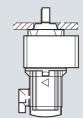
IM B35



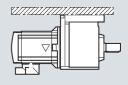
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IM B7

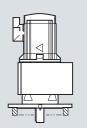
IM V19



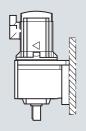
IM B8

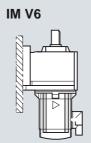


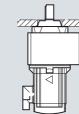
IM V1



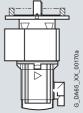
IM V5









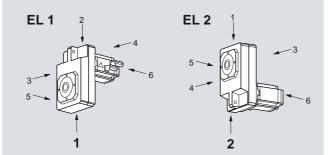


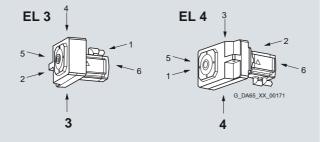


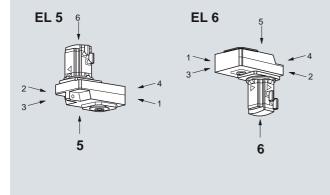
# 1FK7 geared servomotors

## Selection guides

Offset-shaft geared motors – Mounting positions EL 1 to EL 6



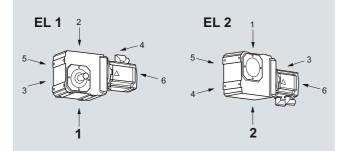




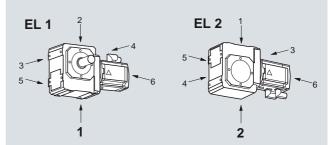
**1FK7 geared servomotors** 

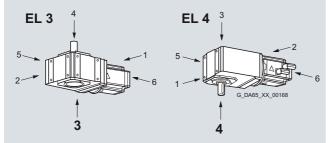
## Selection guides

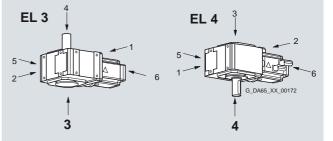
Bevel geared motors – Mounting positions EL 1 to EL 6 Gearbox sizes K102 to K402

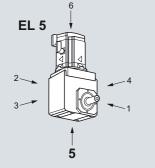


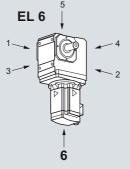
Gearbox sizes K513 to K813



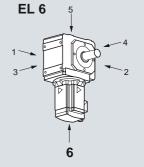












# 1FK7 geared servomotors

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5

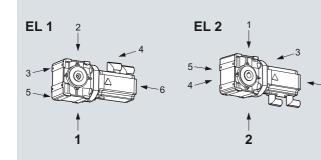
**EL 5** 

2-

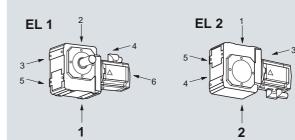
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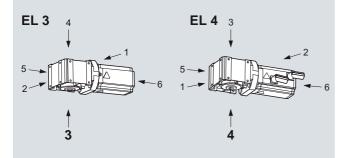
## Selection guides

Worm geared motors – Mounting positions EL 1 to EL 6 Gearbox size S002



Gearbox sizes S102 to S402





**EL 6** 

1 -

3

5

6

6

2

