

AC motors

Geared motors

1FK7 geared servomotors
Helical geared motors

Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
0.30/0.40	782	3.63/2.7	19/14	3.8	441/115	560/125.89	4.2
	476	5.96/4.4	29/21.4	6.3	2035/323	660/148.37	3.9
	291	9.74/7.2	51/37.6	10.5	1421/138	778/174.90	4.2
	192	14.8/10.9	72/53.1	15.5	1595/102	894/200.98	3.9
	129	22/16.2	65/47.9	23	325/14	1020/229.31	2.4
0.41/0.55	86	33.1/24.4	65/47.9	35	1261/36	1170/263.03	1.6
	64	44.3/32.6	65/47.9	47	7865/168	1289/289.78	1.2
	43	66.6/49.1	138/101.7	70	775/11	2099/471.88	1.7
	782	5.02/3.7	36/26.5	3.8	441/115	560/125.89	6.0
	476	8.25/6.1	55/40.5	6.3	2035/323	660/148.37	5.6
0.79/1.06	291	13.5/9.9	72/53.1	10.5	1421/138	778/174.90	4.5
	192	20.5/15.1	72/53.1	15.5	1595/102	894/200.98	3.0
	128	30.8/22.7	138/101.7	24	1035/44	1456/327.32	3.8
	129	30.4/22.4	65/47.9	23	325/14	1020/229.31	1.8
	86	45.9/33.8	138/101.7	35	2700/77	1663/373.86	2.5
1.43/1.92	86	45.9/33.8	65/47.9	35	1261/36	1170/263.03	1.2
	64	61.4/45.3	138/101.7	47	516/11	1833/412.08	1.9
	782	9.67/7.1	36/26.5	3.8	441/115	560/125.89	3.2
	476	15.9/11.7	55/40.5	6.3	2035/323	660/148.37	3.0
	291	26/19.2	72/53.1	10.5	1421/138	778/174.90	2.4
1.43/1.92	191	39.6/29.2	138/101.7	15.5	377/24	1273/286.18	3.0
	192	39.4/29	72/53.1	15.5	1595/102	894/200.98	1.6
	128	59.3/43.7	138/101.7	24	1035/44	1456/327.32	2.0
	86	88.4/65.2	138/101.7	35	2700/77	1663/373.86	1.4
	64	118/87	138/101.7	47	516/11	1833/412.08	1.0
1.43/1.92	782	17.5/12.9	50/36.9	3.8	441/115	560/125.89	2.2
	476	28.7/21.2	59/43.5	6.3	2035/323	660/148.37	1.6
	511	26.8/19.8	102/75.2	5.9	47/8	917/206.15	3.0
	291	46.9/34.6	72/53.1	10.5	1421/138	778/174.90	1.2
	289	47.3/34.9	138/101.7	10.5	841/81	1109/267.52	2.3
1.42/1.90	191	71.6/52.8	138/101.7	15.5	377/24	1273/286.18	1.5
	196	69.7/51.4	230/169.5	15.5	703/46	1775/399.04	2.6
	128	107/78.9	138/101.7	25	1035/44	1456/327.32	1.0
	128	107/78.9	350/258	24	845/36	3045/684.55	2.6
	85	160/117.9	230/169.5	35	1372/39	2343/526.73	1.1
1.43/1.92	86	159/117.2	550/405.4	35	975/28	5961/1340.09	2.7
	60	227/167.3	400/294.8	50	2736/55	3911/879.23	1.4
1.44/1.93	60	229/168.8	600/442.2	50	1305/26	6734/1513.87	2.1
	43	319/235.1	550/405.4	70	559/8	7519/7690.35	1.4
	43	319/235.1	850/626.5	70	10075/144	9229/2074.77	2.1

Gearbox size	Motor frame size	Helical geared motors Order No.	Order codes			Total weight, approx. kg/lb
			Gearbox type	Type	Type of construction mounting position	
	SH					
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D01	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D02	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D03	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D04	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D05	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D06	G ■ ■	H ■ ■	8.6/19.0
C002	36	1FK7032-5AK71-1 ■ ■ 5-Z	D07	G ■ ■	H ■ ■	8.6/19.0
C102	36	1FK7032-5AK71-1 ■ ■ 5-Z	D18	G ■ ■	H ■ ■	13.5/29.8
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D01	G ■ ■	H ■ ■	9.4/20.7
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D02	G ■ ■	H ■ ■	9.4/20.7
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D03	G ■ ■	H ■ ■	9.4/20.7
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D04	G ■ ■	H ■ ■	9.4/20.7
C102	48	1FK7040-5AK71-1 ■ ■ 5-Z	D15	G ■ ■	H ■ ■	14.3/31.5
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D05	G ■ ■	H ■ ■	9.4/20.7
C102	48	1FK7040-5AK71-1 ■ ■ 5-Z	D16	G ■ ■	H ■ ■	14.3/31.5
C002	48	1FK7040-5AK71-1 ■ ■ 5-Z	D06	G ■ ■	H ■ ■	9.4/20.7
C102	48	1FK7040-5AK71-1 ■ ■ 5-Z	D17	G ■ ■	H ■ ■	14.3/31.5
C002	48	1FK7042-5AF71-1 ■ ■ 5-Z	D01	G ■ ■	H ■ ■	10.7/23.6
C002	48	1FK7042-5AF71-1 ■ ■ 5-Z	D02	G ■ ■	H ■ ■	10.7/23.6
C002	48	1FK7042-5AF71-1 ■ ■ 5-Z	D03	G ■ ■	H ■ ■	10.7/23.6
C102	48	1FK7042-5AF71-1 ■ ■ 5-Z	D14	G ■ ■	H ■ ■	15.6/34.4
C002	48	1FK7042-5AF71-1 ■ ■ 5-Z	D04	G ■ ■	H ■ ■	10.7/23.6
C102	48	1FK7042-5AF71-1 ■ ■ 5-Z	D15	G ■ ■	H ■ ■	15.6/34.4
C102	48	1FK7042-5AF71-1 ■ ■ 5-Z	D16	G ■ ■	H ■ ■	15.6/23.6
C102	48	1FK7042-5AF71-1 ■ ■ 5-Z	D17	G ■ ■	H ■ ■	15.6/23.6
C002	63	1FK7060-5AF71-1 ■ ■ 5-Z	D01	G ■ ■	H ■ ■	13.4/29.6
C002	63	1FK7060-5AF71-1 ■ ■ 5-Z	D02	G ■ ■	H ■ ■	13.4/29.6
C102	63	1FK7060-5AF71-1 ■ ■ 5-Z	D12	G ■ ■	H ■ ■	18.3/40.4
C002	63	1FK7060-5AF71-1 ■ ■ 5-Z	D03	G ■ ■	H ■ ■	13.4/29.6
C102	63	1FK7060-5AF71-1 ■ ■ 5-Z	D13	G ■ ■	H ■ ■	18.3/40.4
C102	63	1FK7060-5AF71-1 ■ ■ 5-Z	D14	G ■ ■	H ■ ■	18.3/40.4
C202	63	1FK7060-5AF71-1 ■ ■ 5-Z	D24	G ■ ■	H ■ ■	22.3/49.2
C102	63	1FK7060-5AF71-1 ■ ■ 5-Z	D15	G ■ ■	H ■ ■	18.3/40.4
C302	63	1FK7060-5AF71-1 ■ ■ 5-Z	D35	G ■ ■	H ■ ■	27.4/60.4
C202	63	1FK7060-5AF71-1 ■ ■ 5-Z	D26	G ■ ■	H ■ ■	22.3/49.2
C402	63	1FK7060-5AF71-1 ■ ■ 5-Z	D46	G ■ ■	H ■ ■	37.6/82.9
C302	63	1FK7060-5AF71-1 ■ ■ 5-Z	D37	G ■ ■	H ■ ■	27.4/60.4
C402	63	1FK7060-5AF71-1 ■ ■ 5-Z	D47	G ■ ■	H ■ ■	37.6/82.9
C402	63	1FK7060-5AF71-1 ■ ■ 5-Z	D48	G ■ ■	H ■ ■	37.6/82.9
C502	63	1FK7060-5AF71-1 ■ ■ 5-Z	D58	G ■ ■	H ■ ■	49.2/108.5

Encoder systems: Incremental encoder sin/cos 1 V_{pp}
 Absolute encoder EnDat 2048 pulses/rev.
 Motors without DRIVE-CLiQ interface
 Absolute encoder EnDat 512 pulses/rev.
 (only shaft height 36)
 Basic abs. encoder EnDat 32 pulses/rev.
 (shaft height 48 and higher)
 Res., multi-pole (pole no. = pole no. for motor)
 Resolver, 2-pole

A
E
H
G
S
T

Encoder systems: Incremental encoder sin/cos 1 V_{pp}
 Absolute encoder EnDat 2048 pulses/rev.
 Motors with DRIVE-CLiQ interface
 Absolute encoder EnDat 512 pulses/rev.
 (only shaft height 36)
 Basic abs. encoder EnDat 32 pulses/rev.
 (shaft height 48 and higher)
 Res., multi-pole (pole no. = pole no. for motor)
 Resolver, 2-pole

D
F
L
K
U
P

Holding brake: Motor **without** holding brake
 Motor **with** holding brake

U
V

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Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
2.23/2.99	782	27.2/20	50/36.9	3.8	441/115	560/125.89	1.2
	511	41.6/30.7	102/75.2	5.9	47/8	917/206.15	1.6
2.22/2.98	289	73.5/54.2	138/101.7	10.5	841/81	1109/249.31	1.2
	196	108/79.6	230/169.5	15.5	703/46	1775/399.04	1.4
	128	166/122.3	350/258	23	845/36	3045/684.55	1.4
	86	247/182	550/405.4	35	975/28	5961/1340.09	1.5
2.23/2.99	60	355/261.6	600/442.2	50	1305/26	6734/1513.87	1.1
	43	495/364.8	850/626.5	70	10075/144	9229/2074.77	1.1
2.07/2.78	773	25.6/18.9	101/74.4	3.9	1363/351	799/125.89	3.3
2.08/2.79	511	38.8/28.6	115/84.8	5.9	47/8	917/206.15	2.5
2.07/2.78	289	68.5/50.5	138/101.7	10.5	847/81	1109/249.31	1.7
	196	101/74.4	230/169.5	15.5	703/46	1775/399.04	1.9
2.08/2.79	191	104/76.6	138/101.7	15.5	377/24	1273/286.18	1.1
	128	155/114.2	350/258	23	845/36	3045/684.55	1.9
2.07/2.78	127	156/115	230/169.5	24	637/27	2051/461.09	1.3
	86	230/169.5	550/405.4	35	975/28	5961/1340.09	2.0
2.08/2.79	86	231/170.2	350/258	35	1261/36	3479/782.11	1.3
2.07/2.78	60	329/242.5	920/678	50	1943/39	8241/1852.66	2.4
2.09/2.80	44	454/334.6	1380/1017.1	69	620/9	12344/2775.05	2.6
3.20/4.29	773	39.5/29.1	101/74.4	3.9	1363/351	799/125.89	1.7
	772	39.6/29.2	154/113.5	3.9	486/125	1125/252.91	2.5
	511	59.8/44.1	115/84.8	5.9	47/8	917/206.15	1.3
	518	59/43.5	176/129.7	5.8	666/115	1284/288.66	2.0
	320	95.6/70.5	230/169.5	9.4	2450/261	1509/339.24	1.6
	322	94.8/69.9	350/258	9.3	3575/384	2237/502.90	2.4
3.19/4.28	193	158/116.4	400/294.8	15.5	544/35	2654/596.65	1.7
3.18/4.26	190	160/117.9	600/442.2	16	63/4	4576/1028.73	2.5
3.19/4.28	128	238/175.4	550/405.4	23	1495/64	5219/1173.28	1.5
	128	238/175.4	850/626.5	23	1495/64	6402/1439.23	2.3
3.20/4.29	86	355/261.6	550/405.4	35	975/28	5961/1340.09	1.0
	86	355/261.6	1380/1017.1	35	1360/39	9838/2211.68	2.6
3.19/4.28	60	507/373.7	920/678	50	1943/39	2265/509.19	1.2
3.20/4.29	64	477/351.5	1971/1452.6	47	515/11	14923/3354.84	2.7
3.23/4.33	44	702/517.4	1380/1017.1	69	620/9	12344/2775.05	1.3
3.19/4.28	43	708/521.8	2300/1695.1	70	765/11	17027/3827.84	2.1

Gearbox size	Motor frame size	Helical geared motors		Order codes			Total weight, approx. kg/lb
		Order No.		Gearbox type	Type	Type of construction mounting position	
	SH						
C002	63	1FK7063-5AF71-1	■ ■ 5 - Z	D01	G ■ ■	H ■ ■	17.1/37.7
C102	63	1FK7063-5AF71-1	■ ■ 5 - Z	D12	G ■ ■	H ■ ■	22/48.5
C102	63	1FK7063-5AF71-1	■ ■ 5 - Z	D13	G ■ ■	H ■ ■	22/48.5
C202	63	1FK7063-5AF71-1	■ ■ 5 - Z	D24	G ■ ■	H ■ ■	26/57.3
C302	63	1FK7063-5AF71-1	■ ■ 5 - Z	D35	G ■ ■	H ■ ■	31.1/68.6
C402	63	1FK7063-5AF71-1	■ ■ 5 - Z	D46	G ■ ■	H ■ ■	41.3/91.1
C402	63	1FK7063-5AF71-1	■ ■ 5 - Z	D47	G ■ ■	H ■ ■	41.3/91.1
C502	63	1FK7063-5AF71-1	■ ■ 5 - Z	D58	G ■ ■	H ■ ■	52.9/116.6
C102	80	1FK7080-5AF71-1	■ ■ 5 - Z	D11	G ■ ■	H ■ ■	21.7/47.9
C102	80	1FK7080-5AF71-1	■ ■ 5 - Z	D12	G ■ ■	H ■ ■	21.7/47.9
C102	80	1FK7080-5AF71-1	■ ■ 5 - Z	D13	G ■ ■	H ■ ■	21.7/47.9
C202	80	1FK7080-5AF71-1	■ ■ 5 - Z	D24	G ■ ■	H ■ ■	25.7/56.7
C102	80	1FK7080-5AF71-1	■ ■ 5 - Z	D14	G ■ ■	H ■ ■	21.7/47.9
C302	80	1FK7080-5AF71-1	■ ■ 5 - Z	D35	G ■ ■	H ■ ■	30.8/67.9
C202	80	1FK7080-5AF71-1	■ ■ 5 - Z	D25	G ■ ■	H ■ ■	25.7/56.7
C402	80	1FK7080-5AF71-1	■ ■ 5 - Z	D46	G ■ ■	H ■ ■	41/90.4
C302	80	1FK7080-5AF71-1	■ ■ 5 - Z	D36	G ■ ■	H ■ ■	30.8/67.9
C502	80	1FK7080-5AF71-1	■ ■ 5 - Z	D57	G ■ ■	H ■ ■	52.6/116.0
C612	80	1FK7080-5AF71-1	■ ■ 5 - Z	D68	G ■ ■	H ■ ■	67.9/149.7
C102	80	1FK7083-5AF71-1	■ ■ 5 - Z	D11	G ■ ■	H ■ ■	26.9/59.3
C202	80	1FK7083-5AF71-1	■ ■ 5 - Z	D21	G ■ ■	H ■ ■	30.9/68.1
C102	80	1FK7083-5AF71-1	■ ■ 5 - Z	D12	G ■ ■	H ■ ■	26.9/59.3
C202	80	1FK7083-5AF71-1	■ ■ 5 - Z	D22	G ■ ■	H ■ ■	30.9/68.1
C202	80	1FK7083-5AF71-1	■ ■ 5 - Z	D23	G ■ ■	H ■ ■	30.9/68.1
C302	80	1FK7083-5AF71-1	■ ■ 5 - Z	D33	G ■ ■	H ■ ■	36/79.4
C302	80	1FK7083-5AF71-1	■ ■ 5 - Z	D34	G ■ ■	H ■ ■	36/79.4
C402	80	1FK7083-5AF71-1	■ ■ 5 - Z	D44	G ■ ■	H ■ ■	46.2/101.9
C402	80	1FK7083-5AF71-1	■ ■ 5 - Z	D45	G ■ ■	H ■ ■	46.2/101.9
C502	80	1FK7083-5AF71-1	■ ■ 5 - Z	D55	G ■ ■	H ■ ■	57.8/127.5
C402	80	1FK7083-5AF71-1	■ ■ 5 - Z	D46	G ■ ■	H ■ ■	46.2/101.9
C612	80	1FK7083-5AF71-1	■ ■ 5 - Z	D66	G ■ ■	H ■ ■	73.1/161.2
C502	80	1FK7083-5AF71-1	■ ■ 5 - Z	D57	G ■ ■	H ■ ■	57.8/127.5
C712	80	1FK7083-5AF71-1	■ ■ 5 - Z	D77	G ■ ■	H ■ ■	108.4/239.0
C612	80	1FK7083-5AF71-1	■ ■ 5 - Z	D68	G ■ ■	H ■ ■	73.1/161.2
C712	80	1FK7083-5AF71-1	■ ■ 5 - Z	D78	G ■ ■	H ■ ■	108.4/239.0
Encoder systems: Motors without DRIVE-CLiQ interface		Incremental encoder sin/cos 1 V _{pp}	A				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G				
		Res., multi-pole (pole no.= pole no. for motor)	S				
		Resolver, 2-pole	T				
Encoder systems: Motors with DRIVE-CLiQ interface		Incremental encoder sin/cos 1 V _{pp}	D				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K				
		Res., multi-pole (pole no.= pole no. for motor)	U				
		Resolver, 2-pole	P				
Holding brake: Motor without holding brake Motor with holding brake			U				
			V				
Order codes for type, type of construction and mounting position, refer to page 3/86							

AC motors

Geared motors

1FK7 geared servomotors
Helical geared motors

Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
3.66/4.91	774 512	45.1/33.2 68.2/50.3	251/185 288/212.3	3.9 5.9	190/49 2584/441	1671/375.66 1917/430.96	3.7 2.8
3.64/4.88	322	108/79.6	350/258	9.3	3575/384	2237/502.90	2.2
3.66/4.91	193	181/133.4	400/294.8	15.5	544/35	2654/596.65	1.5
3.64/4.88	190	183/134.9	600/442.2	16	63/4	4576/1028.73	2.2
3.65/4.89	128 128	272/200.5 272/200.5	850/626.5 550/405.4	23 23	1495/64 1495/64	6402/1439.23 5219/1173.28	2.1 1.3
3.66/4.91	86	406/299.2	1380/1017.1	35	1360/39	9838/2211.68	2.3
3.65/4.89	66 64	528/389.1 545/401.7	1380/1017.1 2300/1695.1	45 47	136/3 515/11	1852/416.35 14923/3354.84	1.7 2.8
3.70/4.96	44	802/591.1	4140/3051.2	69	620/9	23146/5203.45	3.4
4.73/6.34	774	58.3/43	251/185	3.9	190/49	1671/375.66	2.5
4.72/6.33	512 324	88.1/64.9 139/102.4	288/212.3 550/405.4	5.9 9.3	2584/441 3445/372	1917/430.96 3834/861.92	1.9 2.3
	322 191	140/130.2 236/173.9	350/258 920/678	9.3 15.5	3575/384 377/24	2237/502.90 5609/1260.96	1.4 2.2
	190	237/174.7	600/442.2	16	63/4	4576/1028.73	1.5
4.70/6.30	128	351/258.7	850/626.5	23	1495/64	6402/1439.23	1.4
4.71/6.32	120	375/276.4	1650/1216.1	25	5185/208	8797/1977.65	2.5
4.75/6.37	86	527/388.4	2300/1695.1	35	2700/77	13552/3046.63	2.5
4.71/6.32	66	682/502.6	1380/1017.1	45	136/3	10737/2413.78	1.2
4.72/6.33	64	704/518.8	2300/1695.1	47	515/11	14923/3354.84	1.9
4.77/6.40	44	1036/763.5	4140/3051.2	69	620/9	23146/5203.45	2.3

Gearbox size	Motor frame size	Helical geared motors Order No.	Order codes			Total weight, approx.
			Gearbox type	Type	Type of construction mounting position	
	SH					kg/lb
C302	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D31	G ■ ■	H ■ ■	38.2/84.2
C302	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D32	G ■ ■	H ■ ■	38.2/84.2
C302	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D33	G ■ ■	H ■ ■	38.2/84.2
C302	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D34	G ■ ■	H ■ ■	38.2/84.2
C402	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D44	G ■ ■	H ■ ■	48.4/106.7
C502	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D55	G ■ ■	H ■ ■	60/132.3
C402	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D45	G ■ ■	H ■ ■	48.4/106.7
C612	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D66	G ■ ■	H ■ ■	75.3/166.0
C612	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D67	G ■ ■	H ■ ■	75.3/166.0
C712	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D77	G ■ ■	H ■ ■	110.6/243.9
C812	100	1FK7100-5AF71-1 ■ ■ 5 - Z	D88	G ■ ■	H ■ ■	170.2/375.3
C302	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D31	G ■ ■	H ■ ■	43.8/96.6
C302	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D32	G ■ ■	H ■ ■	43.8/96.6
C402	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D43	G ■ ■	H ■ ■	43.8/96.6
C302	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D33	G ■ ■	H ■ ■	54/119.1
C502	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D54	G ■ ■	H ■ ■	65.6/144.7
C402	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D44	G ■ ■	H ■ ■	54/119.1
C502	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D55	G ■ ■	H ■ ■	65.6/144.7
C612	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D65	G ■ ■	H ■ ■	80.9/178.4
C712	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D76	G ■ ■	H ■ ■	116.2/256.2
C612	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D67	G ■ ■	H ■ ■	80.9/178.4
C712	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D77	G ■ ■	H ■ ■	116.2/256.2
C812	100	1FK7101-5AF71-1 ■ ■ 5 - Z	D88	G ■ ■	H ■ ■	175.8/387.6
Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp} Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher) Absolute encoder EnDat 512 pulses/rev. (only shaft height 36) Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher) Res., multi-pole (pole no. = pole no. motor) Resolver, 2-pole	A				
		E				
		H				
		G				
		S				
Encoder systems: Motors with DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp} Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher) Absolute encoder EnDat 512 pulses/rev. (only shaft height 36) Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher) Res., multi-pole (pole no. = pole no. motor) Resolver, 2-pole	T				
		D				
		F				
		L				
		K				
Holding brake:	Motor without holding brake Motor with holding brake	U				
		V				
Order codes for type, type of construction and mounting position, refer to page 3/86				• •	• •	

AC motors

Geared motors

1FK7 geared servomotors
Helical geared motors

Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
5.19/6.96	644	77/56.7	251/185	3.9	190/49	1671/375.66	1.9
5.18/6.95	423	117/86.2	288/212.3	5.9	2584/441	1917/430.96	2.0
5.19/6.96	424	117/86.2	420/309.5	5.9	377/64	3297/741.20	1.4
5.18/6.95	269	184/135.6	350/258	9.3	3575/384	2237/502.90	2.5
5.20/6.97	241	206/151.8	920/678	10.5	841/81	4886/1098.42	1.1
5.21/6.99	159	313/230.7	600/442.2	16	63/4	4576/1028.73	1.1
5.19/6.96	154	322/237.3	1650/1216.1	16	1037/64	7620/1713.05	2.9
5.20/6.97	107	464/342	850/626.5	23	1495/64	6402/1439.23	1.9
5.19/6.96	100	496/365.6	1650/1216.1	25	5185/208	8797/1977.65	1.1
5.23/7.01	72	694/511.5	1380/1017.1	35	1360/39	9838/2211.68	3.4
	71	703/518.1	4140/3051.2	35	106/3	18528/4165.28	1.1
5.17/6.93	53	931/686.1	2300/1695.1	47	515/11	14923/3354.84	2.2
5.18/6.95	46	1076/793	4140/3051.2	54	704/13	21362/4802.39	1.2
5.16/6.92	36	1370/1009.7	4140/3051.2	69	620/9	23146/5203.45	1.1
7.92/10.62	770	98.2/72.4	366/269.7	4.7	841/216	2872/645.65	2.0
7.93/10.63	774	97.8/72.1	251/185	3.9	190/49	1671/375.66	1.4
7.95/10.66	513	148/109.1	650/479.1	5.9	117/20	4036/907.33	2.4
7.93/10.63	512	148/109.1	288/212.3	5.9	2584/441	1917/430.96	1.1
7.94/10.65	324	234/172.5	850/626.5	9.3	3445/372	4703/1057.28	2.0
	324	234/172.5	550/405.4	9.3	3445/372	3834/861.92	1.3
7.92/10.62	191	396/291.9	920/678	16	377/24	5609/1260.96	1.3
	185	409/301.4	1650/1216.1	16	1037/64	7620/1713.05	2.2
7.90/10.59	129	585/431.1	2300/1695.1	23	255/11	11806/2654.11	2.1
	120	629/463.6	1650/1216.1	25	5185/208	8797/1977.65	1.4
7.93/10.63	85	891/656.7	4140/3051.2	36	106/3	18528/4165.28	2.5
7.96/10.67	86	884/651.5	2300/1695.1	35	2700/77	13552/3046.63	1.4
7.93/10.63	66	1148/846.1	4140/3051.2	46	592/13	20163/4532.84	2.0
7.91/10.61	64	1181/870.4	2300/1695.1	47	515/11	14923/3354.84	1.1
8.00/10.73	44	1737/1280.2	4140/3051.2	69	620/9	23146/5203.45	1.3

Gearbox size	Motor frame size	Helical geared motors Order No.	Order codes			Total weight, approx. kg/lb
			Gearbox type	Type	Type of construction mounting position	
	SH					
C302	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D31	G ■ ■	H ■ ■	50.4/111.1
C302	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D32	G ■ ■	H ■ ■	50.4/111.1
C402	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D42	G ■ ■	H ■ ■	60.6/133.6
C302	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D33	G ■ ■	H ■ ■	50.4/111.1
C502	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D53	G ■ ■	H ■ ■	72.2/159.2
C402	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D44	G ■ ■	H ■ ■	60.6/133.6
C612	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D64	G ■ ■	H ■ ■	87.5/192.9
C502	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D55	G ■ ■	H ■ ■	72.2/159.2
C612	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D65	G ■ ■	H ■ ■	87.5/192.9
C612	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D66	G ■ ■	H ■ ■	87.5/192.9
C812	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D86	G ■ ■	H ■ ■	182.4/402.2
C712	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D77	G ■ ■	H ■ ■	122.8/270.8
C812	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D87	G ■ ■	H ■ ■	182.4/402.2
C812	100	1FK7103-5AF71-1 ■ ■ 5 - Z	D88	G ■ ■	H ■ ■	182.4/402.2
C402	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D41	G ■ ■	H ■ ■	70.6/155.7
C302	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D31	G ■ ■	H ■ ■	60.4/133.2
C502	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D52	G ■ ■	H ■ ■	82.2/181.3
C302	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D32	G ■ ■	H ■ ■	60.4/133.2
C502	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D53	G ■ ■	H ■ ■	82.2/181.3
C402	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D43	G ■ ■	H ■ ■	70.6/155.7
C502	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D54	G ■ ■	H ■ ■	82.2/181.3
C612	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D64	G ■ ■	H ■ ■	97.5/215.0
C712	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D75	G ■ ■	H ■ ■	132.8/292.8
C612	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D65	G ■ ■	H ■ ■	97.5/215.0
C812	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D86	G ■ ■	H ■ ■	192.4/424.2
C712	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D76	G ■ ■	H ■ ■	132.8/292.8
C812	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D87	G ■ ■	H ■ ■	192.4/292.8
C712	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D77	G ■ ■	H ■ ■	132.8/292.8
C812	100	1FK7105-5AF71-1 ■ ■ 5 - Z	D88	G ■ ■	H ■ ■	192.4/424.2
Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp}	A				
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E				
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H				
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G				
	Resolver, multi-pole (pole number = pole number for motor)	S				
Encoder systems: Motors with DRIVE-CLiQ interface	Resolver, 2-pole	T				
	Incremental encoder sin/cos 1 V _{pp}	D				
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F				
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L				
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K				
Holding brake:	Resolver, multi-pole (pole number = pole number for motor)	U				
	Resolver, 2-pole	P				
Holding brake:	Motor without holding brake	U				
	Motor with holding brake	V				
Order codes for type, type of construction and mounting position, refer to page 3/86				• •	• •	

AC motors

Geared motors

1FK7 geared servomotors
Offset shaft geared motors

Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
0.30/0.40	696	4.07/3	24/17.7	4.3	56/13	1021/229.53	4.7
	464	6.11/4.5	33/24.3	6.5	84/13	1169/262.80	4.5
	275	10.3/7.6	52/38.3	11	273/25	1392/312.94	4.1
	221	12.9/9.5	62/45.7	13.5	231/17	1497/336.54	3.9
	130	21.8/16.1	114/84	23	3185/138	1786/401.51	4.2
	86	33.1/24.4	120/88.4	35	3575/102	2053/461.53	2.9
0.41/0.55	696	5.64/4.2	45/33.2	4.3	56/13	1021/229.53	6.7
	464	8.46/6.2	64/47.2	6.5	84/13	1169/262.80	6.3
	275	14.3/10.5	99/73	11	273/25	1392/312.94	5.8
	221	17.8/13.1	105/77.4	13.5	231/17	1497/336.54	5.0
	130	30.2/22.3	120/88.4	23	3185/138	1786/401.51	3.4
	86	45.9/33.8	120/88.4	35	3575/102	2053/461.53	2.2
0.79/1.06	696	10.9/8	45/33.2	4.3	56/13	1021/229.53	3.6
	464	16.3/12	64/47.2	6.5	84/13	1169/262.80	3.4
	275	27.5/20.3	99/73	11	273/25	1392/312.94	3.1
	221	34.3/25.3	105/77.4	13.5	231/17	1497/336.54	2.7
	130	58.2/42.9	120/88.4	23	3185/138	1786/401.51	1.8
	128	59.1/43.6	233/171.7	23	2320/99	2308/468.28	3.4
	86	88.4/65.2	120/88.4	35	3575/102	2053/461.53	1.2
	85	89.4/65.9	270/199	35	390/11	2650/595.75	2.6
1.43/1.92	696	19.6/14.4	80/59	4.3	56/13	1021/229.53	3.2
	464	29.5/21.7	91/67.1	6.5	84/13	1169/262.80	2.4
	275	49.8/36.7	105/77.4	11	273/25	1392/312.94	1.7
	278	49.3/36.3	196/144.5	11	7303/676	1783/400.84	3.1
	221	61.9/45.6	105/77.4	13.5	231/17	1497/336.54	1.3
	220	62.1/45.8	210/154.8	13.5	109/8	1927/433.21	2.6
	128	107/78.9	270/199	23	2320/99	2308/518.86	2.0
	85	162/119.4	270/199	35	390/11	2650/595.75	1.3
	86	160/117.9	450/331.7	35	7252/207	3666/824.15	2.2
2.22/2.98	696	30.5/22.5	80/59	4.3	56/13	1021/229.53	1.7
	464	45.8/33.8	91/67.1	6.5	84/13	1169/262.80	1.3
	540	39.3/29	112/82.5	5.6	5341/962	1428/321.03	1.9
	278	76.5/56.4	196/144.5	11	7303/676	1783/400.84	1.7
	220	96.5/71.1	210/154.8	13.5	109/8	1927/433.21	1.4
	128	166/122.3	270/199	23	2320/99	2308/518.86	1.1
	86	248/182.8	450/331.7	35	7252/207	3666/824.15	1.2

Gearbox size	Motor frame size	Offset shaft geared motors		Order codes			Total weight, approx.
		Order No.		Gearbox type	Type	Type of construction mounting position	
	SH						kg/lb
F102	36	1FK7032-5AK71-1	5-Z	C11	G	H	13.8/30.4
F102	36	1FK7032-5AK71-1	5-Z	C12	G	H	13.8/30.4
F102	36	1FK7032-5AK71-1	5-Z	C13	G	H	13.8/30.4
F102	36	1FK7032-5AK71-1	5-Z	C14	G	H	13.8/30.4
F102	36	1FK7032-5AK71-1	5-Z	C15	G	H	13.8/30.4
F102	36	1FK7032-5AK71-1	5-Z	C16	G	H	13.8/30.4
F102	48	1FK7040-5AK71-1	5-Z	C11	G	H	14.6/32.2
F102	48	1FK7040-5AK71-1	5-Z	C12	G	H	14.6/32.2
F102	48	1FK7040-5AK71-1	5-Z	C13	G	H	14.6/32.2
F102	48	1FK7040-5AK71-1	5-Z	C14	G	H	14.6/32.2
F102	48	1FK7040-5AK71-1	5-Z	C15	G	H	14.6/32.2
F102	48	1FK7040-5AK71-1	5-Z	C16	G	H	14.6/32.2
F102	48	1FK7042-5AF71-1	5-Z	C11	G	H	15.9/35.1
F102	48	1FK7042-5AF71-1	5-Z	C12	G	H	15.9/35.1
F102	48	1FK7042-5AF71-1	5-Z	C13	G	H	15.9/35.1
F102	48	1FK7042-5AF71-1	5-Z	C14	G	H	15.9/35.1
F102	48	1FK7042-5AF71-1	5-Z	C15	G	H	15.9/35.1
F202	48	1FK7042-5AF71-1	5-Z	C25	G	H	24.1/53.1
F102	48	1FK7042-5AF71-1	5-Z	C16	G	H	15.9/35.1
F202	48	1FK7042-5AF71-1	5-Z	C26	G	H	24.1/53.1
F102	63	1FK7060-5AF71-1	5-Z	C11	G	H	18.6/41.0
F102	63	1FK7060-5AF71-1	5-Z	C12	G	H	18.6/41.0
F102	63	1FK7060-5AF71-1	5-Z	C13	G	H	18.6/41.0
F202	63	1FK7060-5AF71-1	5-Z	C23	G	H	26.8/59.1
F102	63	1FK7060-5AF71-1	5-Z	C14	G	H	18.6/41.0
F202	63	1FK7060-5AF71-1	5-Z	C24	G	H	26.8/59.1
F202	63	1FK7060-5AF71-1	5-Z	C25	G	H	26.8/59.1
F202	63	1FK7060-5AF71-1	5-Z	C26	G	H	26.8/59.1
F302	63	1FK7060-5AF71-1	5-Z	C36	G	H	34.4/75.9
F102	63	1FK7063-5AF71-1	5-Z	C11	G	H	22.3/49.2
F102	63	1FK7063-5AF71-1	5-Z	C12	G	H	22.3/49.2
F202	63	1FK7063-5AF71-1	5-Z	C22	G	H	30.5/67.3
F202	63	1FK7063-5AF71-1	5-Z	C23	G	H	30.5/67.3
F202	63	1FK7063-5AF71-1	5-Z	C24	G	H	30.5/67.3
F202	63	1FK7063-5AF71-1	5-Z	C25	G	H	30.5/67.3
F302	63	1FK7063-5AF71-1	5-Z	C36	G	H	38.1/84.0
Encoder systems: Motors without DRIVE-CLiQ interface		Incremental encoder sin/cos 1 V _{pp}	A				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G				
		Res., multi-pole (pole no. = pole no. motor)	S				
		Resolver, 2-pole	T				
Encoder systems: Motors with DRIVE-CLiQ interface		Incremental encoder sin/cos 1 V _{pp}	D				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K				
		Res., multi-pole (pole no. = pole no. motor)	U				
		Resolver, 2-pole	P				
Holding brake:		Motor without holding brake	U				
		Motor with holding brake	V				
Order codes for type, type of construction and mounting position, refer to page 3/86					.	.	.

AC motors

Geared motors

1FK7 geared servomotors
Offset shaft geared motors

Selection and ordering data

Output (S3 -60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
2.08/2.79	540	36.6/27	173/127.5	5.6	5341/962	1428/321.03	4.0
	278	71.3/52.5	210/154.8	11	7303/676	1783/400.84	2.5
	220	89.9/66.3	210/154.8	13.5	109/8	1927/433.21	2.0
	128	155/114.2	270/199	23	2320/99	2308/518.86	1.5
	128	155/114.2	450/331.7	24	588/25	3210/721.64	2.5
	86	231/170.2	450/331.7	35	7252/207	3666/824.15	1.7
3.20/4.29	86	231/170.2	700/515.9	35	2210/63	4523/1016.82	2.6
	540	56.5/41.6	173/127.5	5.6	5341/962	1428/321.03	2.0
	278	110/81.1	210/154.8	11	7303/676	1783/400.84	1.3
	278	110/81.1	350/258	11	1456/135	2475/556.40	2.1
	224	136/100.2	350/258	13.5	7696/575	2660/597.99	1.7
	221	138/101.7	550/405.4	13.5	5984/441	3296/740.97	2.6
3.66/4.91	128	240/176.9	450/331.7	24	588/25	3210/721.64	1.2
	129	236/173.9	700/515.9	23	325/14	3942/886.20	1.9
	86	357/263.1	700/515.9	35	2210/63	4523/1016.82	1.3
	85	359/264.6	1100/810.7	35	845/24	6120/1375.84	2.0
	516	67.7/49.9	482/355.2	5.8	3784/651	2484/558.43	4.8
	277	126/92.9	550/405.4	11	682/63	3057/687.24	2.9
4.72/6.33	221	158/116.4	550/405.4	13.5	5984/441	3296/740.97	2.3
	129	270/199	700/515.9	23	325/14	3942/886.20	1.7
	129	271/199.7	1100/810.7	23	1885/81	5331/1198.46	2.7
	86	408/300.7	700/515.9	35	2210/63	4523/1016.82	1.1
	516	87.4/64.4	482/355.2	5.8	3784/651	2484/558.43	3.2
	277	163/120.1	550/405.4	11	682/63	3057/687.24	1.9
5.20/6.97	221	204/150.3	550/405.4	13.5	5984/441	3296/740.97	1.5
	220	205/151.1	1000/737	13.5	871/64	4458/1002.20	2.8
	129	349/257.2	700/515.9	23	325/14	3942/886.20	1.2
	85	529/389.9	1100/810.7	35	845/24	6120/1375.84	1.2
	430	115/84.8	482/355.2	5.8	3784/651	2484/558.43	2.4
	231	215/158.5	550/405.4	11	682/63	3057/687.24	1.5
7.93/10.63	231	215/158.5	991/730.4	11	2077/192	4130/928.47	2.6
	184	269/198.3	550/405.4	13.5	5984/441	3296/740.97	1.2
	183	270/199	1000/737	13.5	871/64	4458/1002.20	2.1
	108	460/339	1100/810.7	23	1885/81	5331/1198.46	1.4
	529	143/105.4	766/564.5	5.7	1407/248	3330/748.62	2.9
	516	147/108.3	482/355.2	6	3784/651	2484/558.43	1.8
7.93/10.63	277	273/201.2	991/730.4	11	2077/192	4130/928.47	2.0
	277	273/201.2	550/405.4	11	682/63	3057/687.24	1.1
	220	343/252.8	1000/737	13.6	871/64	4458/1002.20	1.6
	129	587/432.6	1100/810.7	24	1885/81	5331/1198.46	1.0

Gearbox size	Motor frame size	Offset shaft geared motors Order No.	Order codes Gearbox type	Type	Type of construction mounting position	Total weight, approx.
						kg/lb
F202	80	1FK7080-5AF71-1	C22	G	H	30.2/66.6
F202	80	1FK7080-5AF71-1	C23	G	H	30.2/66.6
F202	80	1FK7080-5AF71-1	C24	G	H	30.2/66.6
F202	80	1FK7080-5AF71-1	C25	G	H	30.2/66.6
F302	80	1FK7080-5AF71-1	C35	G	H	37.8/83.4
F302	80	1FK7080-5AF71-1	C36	G	H	37.8/83.4
F402	80	1FK7080-5AF71-1	C46	G	H	46.1/101.7
F202	80	1FK7083-5AF71-1	C22	G	H	35.4/78.1
F202	80	1FK7083-5AF71-1	C23	G	H	35.4/78.1
F302	80	1FK7083-5AF71-1	C33	G	H	43/94.8
F302	80	1FK7083-5AF71-1	C34	G	H	43/94.8
F402	80	1FK7083-5AF71-1	C44	G	H	51.3/113.1
F302	80	1FK7083-5AF71-1	C35	G	H	43/94.8
F402	80	1FK7083-5AF71-1	C45	G	H	51.3/113.1
F402	80	1FK7083-5AF71-1	C46	G	H	51.3/113.1
F602	80	1FK7083-5AF71-1	C66	G	H	78.3/172.7
F402	100	1FK7100-5AF71-1	C42	G	H	53.5/118.0
F402	100	1FK7100-5AF71-1	C43	G	H	53.3/118.0
F402	100	1FK7100-5AF71-1	C44	G	H	53.5/118.0
F402	100	1FK7100-5AF71-1	C45	G	H	53.3/118.0
F602	100	1FK7100-5AF71-1	C65	G	H	80.5/178.0
F402	100	1FK7100-5AF71-1	C46	G	H	53.3/118.0
F402	100	1FK7101-5AF71-1	C42	G	H	59.1/130.3
F402	100	1FK7101-5AF71-1	C43	G	H	59.1/130.3
F402	100	1FK7101-5AF71-1	C44	G	H	59.1/130.3
F602	100	1FK7101-5AF71-1	C64	G	H	86.1/189.9
F402	100	1FK7101-5AF71-1	C45	G	H	59.1/130.3
F602	100	1FK7101-5AF71-1	C66	G	H	86.1/189.9
F402	100	1FK7103-5AF71-1	C42	G	H	65.7/144.9
F402	100	1FK7103-5AF71-1	C43	G	H	65.7/144.9
F602	100	1FK7103-5AF71-1	C63	G	H	92.7/102.4
F402	100	1FK7103-5AF71-1	C44	G	H	65.7/144.9
F602	100	1FK7103-5AF71-1	C64	G	H	92.7/102.4
F602	100	1FK7103-5AF71-1	C65	G	H	92.7/102.4
F602	100	1FK7105-5AF71-1	C62	G	H	103/227.1
F402	100	1FK7105-5AF71-1	C42	G	H	75.7/166.9
F602	100	1FK7105-5AF71-1	C63	G	H	103/227.1
F402	100	1FK7105-5AF71-1	C43	G	H	75.7/166.9
F602	100	1FK7105-5AF71-1	C64	G	H	103/227.1
F602	100	1FK7105-5AF71-1	C65	G	H	103/227.1

Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp}	A
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G
	Res., multi-pole (pole no. = pole no. motor)	S
Encoder systems: Motors with DRIVE-CLiQ interface	Resolver, 2-pole	T
	Incremental encoder sin/cos 1 V _{pp}	D
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K
Holding brake:	Res., multi-pole (pole no. = pole no. motor)	U
	Resolver, 2-pole	P
Holding brake:	Motor without holding brake	V
	Motor with holding brake	V

AC motors

Geared motors

1FK7 geared servomotors
Bevel geared motors

Selection and ordering data

Output (S3-60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
0.30/0.40	750	3.78/2.8	22/16.2	4	4/1	1494/335.87	4.7
	500	5.68/4.2	31/22.8	6	6/1	1710/384.43	4.5
	296	9.59/7.1	48/35.4	10	507/50	2037/457.94	4.1
	179	15.8/11.6	73/53.8	16.5	117/7	2406/540.89	3.8
	129	22/16.2	102/75.2	23	1140/49	2686/603.84	3.8
	85	33.2/24.5	135/99.5	35	3686/105	3081/692.64	3.3
	65	43.7/32.2	185/136.3	46	1849/40	4053/911.15	3.4
	43	65.7/48.4	159/117.2	69	6665/96	4641/1043.34	2.0
0.41/0.55	750	5.24/3.9	42/31	4	4/1	1494/335.87	6.7
	500	7.86/5.8	59/43.5	6	6/1	1710/384.43	6.3
	296	13.3/9.8	92/67.8	10	507/50	2037/457.94	5.8
	179	21.9/16.1	122/89.9	16.5	117/7	2406/540.89	4.7
	129	30.5/22.5	135/99.5	23	1140/49	2686/603.84	3.7
	85	46/33.9	135/99.5	35	3686/105	3081/692.64	2.5
	65	60.5/44.6	220/162.1	46	1849/40	4053/911.15	3.1
0.79/1.06	750	10.1/7.4	42/31	4	4/1	1494/335.87	3.6
	500	15.1/11.1	59/43.5	6	6/1	1710/384.43	3.4
	296	25.6/18.9	92/67.8	10	507/50	2037/457.94	3.1
	179	42.2/31.1	122/89.9	16.5	117/7	2406/540.89	2.5
	129	58.7/43.3	135/99.5	23	1140/49	2686/603.84	2.0
	85	88.5/65.2	135/99.5	35	3686/105	3081/692.64	1.3
	87	87.1/64.2	220/162.1	35	1935/56	3678/826.85	2.2
1.43/1.92	750	18.2/13.4	76/56	4	4/1	1494/335.87	3.3
	500	27.4/20.2	87/64.1	6	6/1	1710/384.43	2.5
	296	46.2/34	103/75.9	10	507/50	2037/457.94	1.8
	178	76.9/56.7	219/161.4	17	2967/176	2895/650.82	2.2
	129	106/78.1	220/162.1	23	2967/128	3220/723.89	1.6
	129	106/78.1	385/283.7	23	559/24	3762/845.74	2.8
	87	158/116.4	220/162.1	35	1935/56	3678/826.85	1.1
	86	158/116.4	385/283.7	35	903/26	4298/966.23	1.9
	65	211/155.5	385/283.7	46	1849/40	4728/1062.90	1.4
	65	211/155.5	600/442.2	46	602/13	7570/1701.81	2.2
2.22/2.98	46	290/213.7	1000/737	65	12586/195	10154/2282.72	2.7
	750	28.3/20.9	76/56	4	4/1	1494/335.87	1.8
	750	28.3/20.9	83/61.2	4	4/1	1793/403.08	2.0
	500	42.5/31.3	87/64.1	6	6/1	1710/384.43	1.4
	500	42.5/31.3	128/94.3	6	6/1	2394/538.20	2.0
	324	65.6/48.3	186/137.1	9.3	1075/116	2767/622.05	1.9
	178	119/87.7	219/161.4	17	2967/176	2895/650.82	1.2
	129	165/121.6	385/283.7	23	559/24	3762/845.74	1.5
2.17/2.91	86	246/181.3	385/283.7	35	903/26	4298/1062.90	1.0
	65	328/241.7	600/442.2	46	602/13	7570/1701.81	1.2

Gearbox size	Motor frame size	Bevel geared motors Order No.	Order codes			Total weight, approx. kg/lb
			Gearbox type	Type	Type of construction mounting position	
	SH					
K102	36	1FK7032-5AK71-1	B11	G	H	12.3/27.1
K102	36	1FK7032-5AK71-1	B12	G	H	12.3/27.1
K102	36	1FK7032-5AK71-1	B13	G	H	12.3/27.1
K102	36	1FK7032-5AK71-1	B14	G	H	12.3/27.1
K102	36	1FK7032-5AK71-1	B15	G	H	12.3/27.1
K102	36	1FK7032-5AK71-1	B16	G	H	12.3/27.1
K202	36	1FK7032-5AK71-1	B27	G	H	19.8/43.7
K202	36	1FK7032-5AK71-1	B28	G	H	19.8/43.7
K102	48	1FK7040-5AK71-1	B11	G	H	13.1/28.9
K102	48	1FK7040-5AK71-1	B12	G	H	13.1/28.9
K102	48	1FK7040-5AK71-1	B13	G	H	13.1/28.9
K102	48	1FK7040-5AK71-1	B14	G	H	13.1/28.9
K102	48	1FK7040-5AK71-1	B15	G	H	13.1/28.9
K102	48	1FK7040-5AK71-1	B16	G	H	13.1/28.9
K202	48	1FK7040-5AK71-1	B27	G	H	20.6/45.4
K102	48	1FK7042-5AF71-1	B11	G	H	14.4/31.8
K102	48	1FK7042-5AF71-1	B12	G	H	14.4/31.8
K102	48	1FK7042-5AF71-1	B13	G	H	14.4/31.8
K102	48	1FK7042-5AF71-1	B14	G	H	14.4/31.8
K102	48	1FK7042-5AF71-1	B15	G	H	14.4/31.8
K102	48	1FK7042-5AF71-1	B16	G	H	14.4/31.8
K202	48	1FK7042-5AF71-1	B26	G	H	21.9/48.3
K102	63	1FK7060-5AF71-1	B11	G	H	17.1/37.7
K102	63	1FK7060-5AF71-1	B12	G	H	17.1/37.7
K102	63	1FK7060-5AF71-1	B13	G	H	17.1/37.7
K202	63	1FK7060-5AF71-1	B24	G	H	24.6/54.2
K202	63	1FK7060-5AF71-1	B25	G	H	24.6/54.2
K302	63	1FK7060-5AF71-1	B35	G	H	29.6/65.3
K202	63	1FK7060-5AF71-1	B26	G	H	24.6/54.2
K302	63	1FK7060-5AF71-1	B36	G	H	29.6/65.3
K302	63	1FK7060-5AF71-1	B37	G	H	29.6/65.3
K402	63	1FK7060-5AF71-1	B47	G	H	43.1/95.0
K513	63	1FK7060-5AF71-1	B58	G	H	48.9/107.8
K102	63	1FK7063-5AF71-1	B11	G	H	20.8/45.9
K202	63	1FK7063-5AF71-1	B21	G	H	28.3/62.4
K102	63	1FK7063-5AF71-1	B12	G	H	20.8/45.9
K302	63	1FK7063-5AF71-1	B32	G	H	33.3/73.4
K302	63	1FK7063-5AF71-1	B33	G	H	33.3/73.4
K202	63	1FK7063-5AF71-1	B24	G	H	28.3/62.4
K302	63	1FK7063-5AF71-1	B35	G	H	33.3/73.4
K302	63	1FK7063-5AF71-1	B36	G	H	33.3/73.4
K402	63	1FK7063-5AF71-1	B47	G	H	46.8/103.2
K513	63	1FK7063-5AF71-1	B58	G	H	52.6/116.0

Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp}	A
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G
Encoder systems: Motors with DRIVE-CLiQ interface	Res., multi-pole (pole no. = pole no. motor)	S
	Resolver, 2-pole	T
	Incremental encoder sin/cos 1 V _{pp}	D
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F
Encoder systems: Motors with DRIVE-CLiQ interface	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K
	Res., multi-pole (pole no. = pole no. motor)	U
	Resolver, 2-pole	P
Holding brake:	Motor without holding brake	U
	Motor with holding brake	V

AC motors

Geared motors

1FK7 geared servomotors
Bevel geared motors

Selection and ordering data

Output (S3-60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
2.07/2.78	750	26.4/19.5	135/99.5	4	4/1	1793/403.08	4.4
	500	39.6/29.2	155/114.2	6	6/1	2052/461.31	3.3
	298	66.4/48.9	184/135.6	10	2881/286	2439/548.31	2.4
	177	112/82.5	384/283	17	559/33	3383/760.53	2.9
	129	153/112.8	220/162.1	23	2967/128	3220/723.89	1.2
2.03/2.72	129	154/113.5	385/283.7	23	559/24	3762/845.74	2.1
	86	229/168.8	600/442.2	35	4171/120	6879/1546.47	2.2
	62	313/230.7	1000/737	48	2697/56	9210/2070.50	2.7
	39	495/364.8	1600/1179.2	76	126697/1664	12763/2869.25	2.7
	750	40.7/30	135/99.5	4	4/1	1793/403.08	2.2
3.20/4.29	500	61.1/45	155/114.2	6	6/1	2052/461.31	1.7
	500	61.1/45	271/199.7	6	6/1	2394/538.20	2.9
	298	103/75.9	184/135.6	10	2881/286	2439/548.31	1.2
	324	94.4/69.6	314/231.4	9.3	1075/116	2767/622.05	2.2
	177	173/127.5	384/283	17	559/33	3383/760.53	1.5
3.14/4.21	177	173/127.5	575/423.8	17	559/33	5414/1217.12	2.2
	129	237/174.7	385/283.7	23	559/24	3762/845.74	1.1
	123	244/179.8	1000/737	24	11687/480	7337/1649.43	2.7
	93	324/238.8	1000/737	32	20677/640	8062/1812.42	2.0
	62	483/356	1000/737	48	2697/56	9210/2070.50	1.4
3.19/4.28	63	479/353	1600/1179.2	48	39711/832	10923/2455.60	2.2
	46	648/477.6	1000/737	65	12586/195	10154/2282.72	1.0
	46	651/479.8	2574/	65	33201/512	16635/3739.71	2.6
	86	354/260.9	600/442.2	35	4171/120	6879/1546.47	1.1
	750	46.6/34.3	356/262.4	4	4/1	3346/752.21	5.1
3.66/4.91	500	69.8/51.4	407/300	6	6/1	3830/861.02	3.9
	297	118/87	484/356.7	10	1333/132	4556/1024.23	2.7
	177	197/145.2	575/423.8	17	559/33	5414/1217.12	1.9
	129	271/199.7	600/442.2	23	559/24	6020/1353.36	1.5
	123	279/205.6	1000/737	24	11687/480	7337/1649.43	2.4
3.60/4.83	93	371/273.4	1000/737	32	20677/640	8062/1812.42	1.8
	87	397/292.6	1600/1179.2	35	35441/1024	9813/2206.06	2.7
	60	572/421.6	2600/1916.2	50	166005/3328	15242/3426.55	3.0
	46	744/548.3	2600/1916.2	65	33201/512	16635/3739.71	2.3

Gearbox size	Motor frame size	Bevel geared motors Order No.	Order codes			Total weight, approx. kg/lb
			Gearbox type	Type	Type of construction mounting position	
	SH					
K202	80	1FK7080-5AF71-1 ■ ■ 5-Z	B21	G ■ ■	H ■ ■	28/61.7
K202	80	1FK7080-5AF71-1 ■ ■ 5-Z	B22	G ■ ■	H ■ ■	28/61.7
K202	80	1FK7080-5AF71-1 ■ ■ 5-Z	B23	G ■ ■	H ■ ■	28/61.7
K302	80	1FK7080-5AF71-1 ■ ■ 5-Z	B34	G ■ ■	H ■ ■	33/72.8
K202	80	1FK7080-5AF71-1 ■ ■ 5-Z	B25	G ■ ■	H ■ ■	28/61.7
K302	80	1FK7080-5AF71-1 ■ ■ 5-Z	B35	G ■ ■	H ■ ■	33/72.8
K402	80	1FK7080-5AF71-1 ■ ■ 5-Z	B46	G ■ ■	H ■ ■	46.5/102.5
K513	80	1FK7080-5AF71-1 ■ ■ 5-Z	B57	G ■ ■	H ■ ■	52.3/115.3
K613	80	1FK7080-5AF71-1 ■ ■ 5-Z	B68	G ■ ■	H ■ ■	73.8/162.7
K202	80	1FK7083-5AF71-1 ■ ■ 5-Z	B21	G ■ ■	H ■ ■	33.2/73.2
K202	80	1FK7083-5AF71-1 ■ ■ 5-Z	B22	G ■ ■	H ■ ■	33.2/73.2
K302	80	1FK7083-5AF71-1 ■ ■ 5-Z	B32	G ■ ■	H ■ ■	38.2/84.2
K202	80	1FK7083-5AF71-1 ■ ■ 5-Z	B23	G ■ ■	H ■ ■	33.2/73.2
K302	80	1FK7083-5AF71-1 ■ ■ 5-Z	B33	G ■ ■	H ■ ■	38.2/84.2
K302	80	1FK7083-5AF71-1 ■ ■ 5-Z	B34	G ■ ■	H ■ ■	38.2/84.2
K402	80	1FK7083-5AF71-1 ■ ■ 5-Z	B44	G ■ ■	H ■ ■	51.7/114.0
K302	80	1FK7083-5AF71-1 ■ ■ 5-Z	B35	G ■ ■	H ■ ■	38.2/84.2
K513	80	1FK7083-5AF71-1 ■ ■ 5-Z	B55	G ■ ■	H ■ ■	57.5/126.8
K513	80	1FK7083-5AF71-1 ■ ■ 5-Z	B56	G ■ ■	H ■ ■	57.5/126.8
K513	80	1FK7083-5AF71-1 ■ ■ 5-Z	B57	G ■ ■	H ■ ■	57.5/126.8
K613	80	1FK7083-5AF71-1 ■ ■ 5-Z	B67	G ■ ■	H ■ ■	79/174.2
K513	80	1FK7083-5AF71-1 ■ ■ 5-Z	B58	G ■ ■	H ■ ■	57.5/126.8
K713	80	1FK7083-5AF71-1 ■ ■ 5-Z	B78	G ■ ■	H ■ ■	107.3/236.6
K402	80	1FK7083-5AF71-1 ■ ■ 5-Z	B46	G ■ ■	H ■ ■	51.7/114.0
K402	100	1FK7100-5AF71-1 ■ ■ 5-Z	B41	G ■ ■	H ■ ■	53.9/118.9
K402	100	1FK7100-5AF71-1 ■ ■ 5-Z	B42	G ■ ■	H ■ ■	53.9/118.9
K402	100	1FK7100-5AF71-1 ■ ■ 5-Z	B43	G ■ ■	H ■ ■	53.9/118.9
K402	100	1FK7100-5AF71-1 ■ ■ 5-Z	B44	G ■ ■	H ■ ■	53.9/118.9
K402	100	1FK7100-5AF71-1 ■ ■ 5-Z	B45	G ■ ■	H ■ ■	53.9/118.9
K513	100	1FK7100-5AF71-1 ■ ■ 5-Z	B55	G ■ ■	H ■ ■	59.7/131.6
K513	100	1FK7100-5AF71-1 ■ ■ 5-Z	B56	G ■ ■	H ■ ■	59.7/131.6
K613	100	1FK7100-5AF71-1 ■ ■ 5-Z	B66	G ■ ■	H ■ ■	81.2/179.1
K713	100	1FK7100-5AF71-1 ■ ■ 5-Z	B77	G ■ ■	H ■ ■	109.5/241.5
K713	100	1FK7100-5AF71-1 ■ ■ 5-Z	B78	G ■ ■	H ■ ■	109.5/241.5
Encoder systems:		Incremental encoder sin/cos 1 V _{pp}	A			
		Absolute encoder EnDat 2048 pulses/rev.	E			
		(shaft height 48 and higher)				
		Absolute encoder EnDat 512 pulses/rev.	H			
		(only shaft height 36)				
		Basic abs. encoder EnDat 32 pulses/rev.	G			
		(shaft height 48 and higher)				
		Res., multi-pole (pole no. = pole no. motor)	S			
		Resolver, 2-pole	T			
Encoder systems:		Incremental encoder sin/cos 1 V _{pp}	D			
		Absolute encoder EnDat 2048 pulses/rev.	F			
		(shaft height 48 and higher)				
		Absolute encoder EnDat 512 pulses/rev.	L			
		(only shaft height 36)				
		Basic abs. encoder EnDat 32 pulses/rev.	K			
		(shaft height 48 and higher)				
		Res., multi-pole (pole no. = pole no. motor)	U			
		Resolver, 2-pole	P			
Holding brake:		Motor without holding brake	U			
		Motor with holding brake	V			
Order codes for type, type of construction and mounting position, refer to page 3/86				.	.	.

AC motors

Geared motors

1FK7 geared servomotors
Bevel geared motors

Selection and ordering data

Output (S3-60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
4.72/6.33	750	60.1/44.3	356/262.4	4	4/1	3346/752.21	3.4
	500	90.2/66.5	407/300	6	6/1	3830/861.02	2.6
	297 177	152/112 255/187.9	484/356.7 575/423.8	10 17	1333/132 559/33	4556/1024.23 5414/1217.12	1.8 1.3
4.66/6.25	186	238/175.4	1000/737	16	26071/1620	6391/1436.76	2.4
	123	361/266.1	1000/737	24	11687/480	7337/1649.43	1.6
	125	356/262.4	1584/1167.4	24	24583/1024	8687/1952.92	2.6
	87 85	513/378.1 525/386.9	1600/1179.2 2600/1916.2	35 35	35441/1024 567/16	9813/2206.06 13600/3057.42	1.8 2.8
4.64/6.22	60	739/544.6	2600/1916.2	50	166005/3328	15242/3426.55	2.0
4.63/6.21	46	961/708.3	2600/1916.2	65	33201/512	16635/3739.71	1.6
4.67/6.26	46	969/714.2	4650/3427.1	65	188387/2880	21991/4943.80	2.8
5.17/6.93	625	79/58.2	356/262.4	4	4/1	3346/752.21	2.5
5.20/6.97	417	119/87.7	407/300	6	6/1	3830/861.02	1.9
5.19/6.96	248	200/147.4	484/356.7	10	1333/132	4556/1024.23	1.4
5.13/6.88	246	199/146.7	900/663.3	10	203/20	5481/1232.18	2.6
	155	315/232.2	1000/737	16	26071/1620	6391/1436.76	1.8
	158	310/228.5	1380/1017.1	16	54839/3456	7567/1701.14	2.5
	103	477/351.5	1000/737	24	11687/480	7337/1649.43	1.2
	104	470/346.4	1584/1167.4	24	24583/1024	8687/1952.92	1.9
	72	678/499.7	1600/1179.2	35	35441/1024	9813/2206.06	1.3
5.16/6.92	71	694/511.5	2600/1916.2	35	567/16	13600/3057.42	2.1
5.12/6.87	50	978/720.8	2600/1916.2	50	166005/3328	15242/3426.55	1.5
5.13/6.88	51	960/707.5	4650/3427.1	49	5487/112	19971/4489.68	2.8
5.19/6.96	39	1271/936.7	2600/1916.2	65	33201/512	16635/3739.71	1.2
5.09/6.83	38	1280/943.4	4650/3427.1	65	188387/2880	21991/4943.80	2.1
7.93/10.63	750	101/74.4	356/262.4	4	4/1	3346/752.21	1.9
	500	151/111.3	407/300	6	6/1	3830/861.02	1.5
7.81/10.47	296	252/185.7	900/663.3	10	203/20	5481/1232.18	1.9
7.93/10.63	297	255/187.9	484/356.7	10	1333/132	4556/1024.23	1.0
7.80/10.46	189	394/290.4	1380/1017.1	16	54839/3456	7567/1701.14	1.9
	186	400/294.8	1000/737	16	26071/1620	6391/1436.76	1.4
	125	597/440	1584/1167.4	24	24583/1024	8687/1952.92	1.4
	119	626/461.4	2600/1916.2	25	64449/2560	12135/2728.07	2.3
7.84/10.51	85	881/649.3	2600/1916.2	35	567/16	3276/736.48	1.6
7.80/10.46	83	898/661.8	4255/3135.9	36	2891/80	18045/4056.70	2.6
	61	1218/897.7	4650/3427.1	49	5487/112	19971/4489.68	2.1
	60	1240/913.9	2600/1916.2	50	166005/3328	15242/3426.55	1.1
7.83/10.50	46	1626/1198.4	4650/3427.1	65	188387/2880	21991/4943.80	1.5

Gearbox size	Motor frame size	Bevel geared motors		Order codes			Total weight, approx.
		Order No.		Gearbox type	Type	Type of construction mounting position	
	SH						kg/lb
K402	100	1FK7101-5AF71-1	5 - Z	B41	G	H	59.5/131.2
K402	100	1FK7101-5AF71-1	5 - Z	B42	G	H	59.5/131.2
K402	100	1FK7101-5AF71-1	5 - Z	B43	G	H	59.5/131.2
K402	100	1FK7101-5AF71-1	5 - Z	B44	G	H	59.5/131.2
K513	100	1FK7101-5AF71-1	5 - Z	B54	G	H	65.3/144.0
K513	100	1FK7101-5AF71-1	5 - Z	B55	G	H	65.3/144.0
K613	100	1FK7101-5AF71-1	5 - Z	B65	G	H	86.8/191.4
K613	100	1FK7101-5AF71-1	5 - Z	B66	G	H	86.8/191.4
K713	100	1FK7101-5AF71-1	5 - Z	B76	G	H	115.1/253.8
K713	100	1FK7101-5AF71-1	5 - Z	B77	G	H	115.1/253.8
K713	100	1FK7101-5AF71-1	5 - Z	B78	G	H	115.1/253.8
K813	100	1FK7101-5AF71-1	5 - Z	B88	G	H	168.5/371.5
K402	100	1FK7103-5AF71-1	5 - Z	B41	G	H	66.1/145.8
K402	100	1FK7103-5AF71-1	5 - Z	B42	G	H	66.1/145.8
K402	100	1FK7103-5AF71-1	5 - Z	B43	G	H	66.1/145.8
K513	100	1FK7103-5AF71-1	5 - Z	B53	G	H	71.9/158.5
K513	100	1FK7103-5AF71-1	5 - Z	B54	G	H	71.9/158.5
K613	100	1FK7103-5AF71-1	5 - Z	B64	G	H	93.4/206.0
K513	100	1FK7103-5AF71-1	5 - Z	B55	G	H	71.9/158.5
K613	100	1FK7103-5AF71-1	5 - Z	B65	G	H	93.4/206.0
K613	100	1FK7103-5AF71-1	5 - Z	B66	G	H	93.4/206.0
K713	100	1FK7103-5AF71-1	5 - Z	B76	G	H	121.7/268.4
K713	100	1FK7103-5AF71-1	5 - Z	B77	G	H	121.7/268.4
K813	100	1FK7103-5AF71-1	5 - Z	B87	G	H	175.1/386.1
K713	100	1FK7103-5AF71-1	5 - Z	B78	G	H	121.7/268.4
K813	100	1FK7103-5AF71-1	5 - Z	B88	G	H	175.1/386.1
K402	100	1FK7105-5AF71-1	5 - Z	B41	G	H	76.1/167.8
K402	100	1FK7105-5AF71-1	5 - Z	B42	G	H	76.1/167.8
K513	100	1FK7105-5AF71-1	5 - Z	B53	G	H	82/180.8
K402	100	1FK7105-5AF71-1	5 - Z	B43	G	H	76.1/167.8
K613	100	1FK7105-5AF71-1	5 - Z	B64	G	H	103/227.1
K513	100	1FK7105-5AF71-1	5 - Z	B54	G	H	82/180.8
K613	100	1FK7105-5AF71-1	5 - Z	B65	G	H	103/227.1
K713	100	1FK7105-5AF71-1	5 - Z	B75	G	H	132/291.1
K713	100	1FK7105-5AF71-1	5 - Z	B76	G	H	132/291.1
K813	100	1FK7105-5AF71-1	5 - Z	B86	G	H	185/407.9
K813	100	1FK7105-5AF71-1	5 - Z	B87	G	H	185/407.9
K713	100	1FK7105-5AF71-1	5 - Z	B77	G	H	132/291.1
K813	100	1FK7105-5AF71-1	5 - Z	B88	G	H	185/407.9

Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp}	A
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E
	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G
Encoder systems: Motors with DRIVE-CLiQ interface	Res., multi-pole (pole no. = pole no. motor)	S
	Resolver, 2-pole	T
	Incremental encoder sin/cos 1 V _{pp}	D
	Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F
Encoder systems: Motors with DRIVE-CLiQ interface	Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L
	Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K
	Res., multi-pole (pole no. = pole no. motor)	U
	Resolver, 2-pole	P
Holding brake:	Motor without holding brake	U
	Motor with holding brake	V

AC motors

Geared motors

1FK7 geared servomotors
Worm geared motors

Selection and ordering data

Output (S3-60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
0.28/0.38	312	8.5/6.3	43/31.7	9.6	1107/115	1689/379.70	4.1
	172	15.3/11.3	73/53.8	17.5	297/17	1938/435.68	3.9
0.27/0.36	128	20.2/14.9	82/60.4	23	117/5	2271/510.54	3.3
	86	30/22.1	125/92.1	35	873/25	2441/548.76	3.4
0.24/0.32	51	45.6/33.6	88/64.9	59	117/2	3082/692.86	1.6
	52	45.8/33.8	172/126.8	58	405/7	2889/649.48	3.1
	40	57.7/42.5	96/70.8	75	747/10	3343/751.54	1.4
0.38/0.51	43	54.8/40.4	184/135.6	70	279/4	3075/691.29	2.7
	172	21.2/15.6	110/81.1	17.5	297/17	1938/435.68	4.4
0.35/0.47	86	41.6/30.7	150/110.6	35	873/25	2441/548.76	3.0
	52	63.4/46.7	172/126.8	58	405/7	2889/649.48	2.3
0.73/0.98	43	75.9/55.9	184/135.6	70	279/4	3075/691.29	2.0
	172	40.8/30.1	110/81.1	17.5	297/17	1938/435.68	2.3
0.72/0.97	130	53.6/39.5	132/97.3	23	162/7	2128/478.40	2.1
	86	80.1/59	150/110.6	35	873/25	2441/548.76	1.6
0.66/0.89	86	79.9/58.9	252/185.7	35	243/7	3411/766.83	2.7
	52	122/89.9	172/126.8	58	405/7	2889/649.48	1.2
0.69/0.93	52	126/92.9	302/222.6	58	1863/32	4053/911.15	2.1
0.66/0.89	43	146/107.6	184/135.6	70	279/4	3075/691.29	1.1
0.68/0.91	43	151/111.3	324/238.8	70	351/5	4314/969.83	1.9
1.35/1.81	326	39.5/29.1	74/54.5	9.2	46/5	1565/351.83	1.5
1.33/1.78	172	73.7/54.3	110/81.1	17.5	297/17	1938/435.68	1.2
	171	74.4/54.8	217/159.9	17.5	351/20	2717/610.81	2.3
1.31/1.76	129	97.9/72.2	259/190.9	23	1863/80	2986/671.28	2.1
	86	144/106.1	310/228.5	35	243/7	3411/766.83	1.7
	86	146/107.6	498/367	35	2268/65	4881/1097.30	2.7
1.24/1.66	52	227/167.3	302/222.6	58	1863/32	4053/911.15	1.0
	51	232/171	561/413.5	59	117/2	5799/1303.67	1.9
	43	275/202.7	609/448.8	70	2241/32	6157/1384.16	1.7
	43	277/204.1	791/583	70	279/4	7994/1797.13	2.2

Gearbox size	Motor frame size	Worm geared motors		Order codes			Total weight, approx.
		Order No.		Gearbox type	Type	Type of construction mounting position	
	SH						kg/lb
S002	36	1FK7032-5AK71-1	5-Z	E03	G	H	6.6/14.6
S102	36	1FK7032-5AK71-1	5-Z	E14	G	H	12.9/28.4
S002	36	1FK7032-5AK71-1	5-Z	E05	G	H	6.6/14.6
S102	36	1FK7032-5AK71-1	5-Z	E16	G	H	12.9/28.4
S002	36	1FK7032-5AK71-1	5-Z	E07	G	H	6.6/14.6
S102	36	1FK7032-5AK71-1	5-Z	E17	G	H	12.9/28.4
S002	36	1FK7032-5AK71-1	5-Z	E08	G	H	6.6/14.6
S102	36	1FK7032-5AK71-1	5-Z	E18	G	H	12.9/28.4
S102	48	1FK7040-5AK71-1	5-Z	E14	G	H	13.7/30.2
S102	48	1FK7040-5AK71-1	5-Z	E16	G	H	13.7/30.2
S102	48	1FK7040-5AK71-1	5-Z	E17	G	H	13.7/30.2
S102	48	1FK7040-5AK71-1	5-Z	E18	G	H	13.7/30.2
S102	48	1FK7042-5AF71-1	5-Z	E14	G	H	15/33.1
S102	48	1FK7042-5AF71-1	5-Z	E15	G	H	15/33.1
S102	48	1FK7042-5AF71-1	5-Z	E16	G	H	15/33.1
S202	48	1FK7042-5AF71-1	5-Z	E26	G	H	22.5/49.6
S102	48	1FK7042-5AF71-1	5-Z	E17	G	H	15/33.1
S202	48	1FK7042-5AF71-1	5-Z	E27	G	H	22.5/49.6
S102	48	1FK7042-5AF71-1	5-Z	E18	G	H	15/33.1
S202	48	1FK7042-5AF71-1	5-Z	E28	G	H	22.5/49.6
S102	63	1FK7060-5AF71-1	5-Z	E13	G	H	17.7/39.0
S102	63	1FK7060-5AF71-1	5-Z	E14	G	H	17.7/39.0
S202	63	1FK7060-5AF71-1	5-Z	E24	G	H	25.2/55.6
S202	63	1FK7060-5AF71-1	5-Z	E25	G	H	25.2/55.6
S202	63	1FK7060-5AF71-1	5-Z	E26	G	H	25.2/55.6
S302	63	1FK7060-5AF71-1	5-Z	E36	G	H	34.4/75.9
S202	63	1FK7060-5AF71-1	5-Z	E27	G	H	25.2/55.6
S302	63	1FK7060-5AF71-1	5-Z	E37	G	H	34.4/75.9
S302	63	1FK7060-5AF71-1	5-Z	E38	G	H	34.4/75.9
S402	63	1FK7060-5AF71-1	5-Z	E48	G	H	43.6/96.1
Encoder systems:		Incremental encoder sin/cos 1 V _{pp}	A				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	E				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	H				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	G				
		Res., multi-pole (pole no. = pole no. motor)	S				
Encoder systems:		Resolver, 2-pole	T				
		Incremental encoder sin/cos 1 V _{pp}	D				
		Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher)	F				
		Absolute encoder EnDat 512 pulses/rev. (only shaft height 36)	L				
		Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher)	K				
Holding brake:		Res., multi-pole (pole no. = pole no. motor)	U				
		Resolver, 2-pole	P				
		Motor without holding brake	V				
		Motor with holding brake					
Order codes for type, type of construction and mounting position, refer to page 3/86					.	.	.

AC motors

Geared motors

1FK7 geared servomotors
Worm geared motors

Selection and ordering data

Output (S3-60%)	Output speed	Rated output torque	Max. permissible acceleration torque	Nominal ratio	Exact ratio	Cantilever force gearbox shaft extension	Overload factor
P_2 kW/HP	n_2 rpm	M_2 Nm/lb _f -ft	M_{2max} Nm/lb _f -ft	i_{nom}	i_{exact}	F_{rperm} N/lb _f	f_B
2.11/2.83	325	61.9/45.6	126/92.9	9.2	1431/155	2194/493.23	1.4
2.08/2.79	171	116/85.5	217/159.9	17.5	351/20	2717/610.81	1.2
2.05/2.75	129	152/112	259/190.9	23	1863/80	2986/671.28	1.1
	86	227/167.3	498/367	35	2268/65	4881/1097.30	1.5
1.92/2.57	51	360/265.3	561/413.5	59	117/2	5799/1303.67	1.0
1.94/2.60	43	430/316.9	791/583	70	279/4	7994/1797.13	1.2
1.93/2.59	171	108/79.6	217/159.9	17.5	351/20	2717/610.81	1.7
	173	107/78.9	373/274.9	17.5	1998/115	3869/869.49	3.0
	129	142/104.7	259/190.9	23	1863/80	2986/671.28	1.6
	128 86	144/106.1 213/157	458/337.5 720/530.6	23 35	117/5 873/25	4273/960.61 6347/1426.87	2.7 2.9
1.79/2.40	51	335/246.9	561/413.5	59	117/2	5799/1303.67	1.4
	43	399/294.1	609/448.8	70	2241/32	6157/1384.16	1.3
3.05/4.09	322	90.5/66.7	216/159.2	9.3	270/29	3143/706.58	1.6
3.01/4.04	173	166/122.3	373/274.9	17.5	1998/115	3869/869.79	1.5
3.03/4.06	172	168/123.8	557/410.5	17.5	612/35	5040/1133.04	2.2
2.98/4.00	128	222/163.6	458/337.5	23	117/5	4273/960.61	1.4
	128	222/163.6	685/504.8	23	117/5	5554/1248.59	2.0
2.95/3.96	86	328/241.7	720/530.6	35	873/25	6347/1426.87	1.4
3.47/4.65	259	128/94.3	371/274.9	11.5	81/7	4392/987.37	1.9
3.44/4.61	172	191/140.8	557/410.5	17.5	612/35	5040/1133.04	1.9
4.50/6.03	259	166/122.3	371/273.4	11.5	81/7	4392/987.37	1.3
4.45/5.97	172	247/182	557/410.5	17.5	612/35	5040/1133.04	1.3

Gearbox size	Motor frame size	Worm geared motors Order No.	Order codes			Total weight, approx.
			Gearbox type	Type	Type of construction mounting position	
	SH					kg/lb
S202	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E23	G ■ ■	H ■ ■	28.9/63.7
S202	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E24	G ■ ■	H ■ ■	28.9/63.7
S202	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E25	G ■ ■	H ■ ■	28.9/63.7
S302	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E36	G ■ ■	H ■ ■	38.1/84.0
S302	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E37	G ■ ■	H ■ ■	38.1/84.0
S402	63	1FK7063-5AF71-1 ■ ■ 5 - Z	E48	G ■ ■	H ■ ■	47.3/104.3
S202	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E24	G ■ ■	H ■ ■	28.6/63.1
S302	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E34	G ■ ■	H ■ ■	37.8/83.4
S202	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E25	G ■ ■	H ■ ■	28.6/63.1
S302	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E35	G ■ ■	H ■ ■	37.8/83.4
S402	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E46	G ■ ■	H ■ ■	47/103.6
S302	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E37	G ■ ■	H ■ ■	37.8/83.4
S302	80	1FK7080-5AF71-1 ■ ■ 5 - Z	E38	G ■ ■	H ■ ■	37.8/83.4
S302	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E33	G ■ ■	H ■ ■	43/94.8
S302	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E34	G ■ ■	H ■ ■	43/94.8
S402	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E44	G ■ ■	H ■ ■	52.2/115.1
S302	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E35	G ■ ■	H ■ ■	43/94.8
S402	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E45	G ■ ■	H ■ ■	52.2/115.1
S402	80	1FK7083-5AF71-1 ■ ■ 5 - Z	E46	G ■ ■	H ■ ■	52.2/115.1
S402	100	1FK7100-5AF71-1 ■ ■ 5 - Z	E43	G ■ ■	H ■ ■	54.4/120.2
S402	100	1FK7100-5AF71-1 ■ ■ 5 - Z	E44	G ■ ■	H ■ ■	54.4/120.2
S402	100	1FK7101-5AF71-1 ■ ■ 5 - Z	E43	G ■ ■	H ■ ■	60/132.3
S402	100	1FK7101-5AF71-1 ■ ■ 5 - Z	E44	G ■ ■	H ■ ■	60/132.3
Encoder systems: Motors without DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp} Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher) Absolute encoder EnDat 512 pulses/rev. (only shaft height 36) Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher) Res., multi-pole (pole no. = pole no. motor) Resolver, 2-pole	A				
		E				
		H				
		G				
		S				
Encoder systems: Motors with DRIVE-CLiQ interface	Incremental encoder sin/cos 1 V _{pp} Absolute encoder EnDat 2048 pulses/rev. (shaft height 48 and higher) Absolute encoder EnDat 512 pulses/rev. (only shaft height 36) Basic abs. encoder EnDat 32 pulses/rev. (shaft height 48 and higher) Res., multi-pole (pole no. = pole no. motor) Resolver, 2-pole	T				
		D				
		F				
		L				
		K				
Holding brake:	Motor without holding brake Motor with holding brake	U				
		V				
Order codes for type, type of construction and mounting position, refer to page 3/86				.	.	.

AC motors

Geared motors

1FK7 geared servomotors

Selection and ordering data

Order codes for 1FK7 geared servomotors

Order no. for geared motor + order codes		1FK7...-5A.71-1..5-Z			☐ ☐ ☐			G ☐ ☐ ☐			H ☐ ☐ ☐		
1st order code, Gear type													
• Bevel gear unit K 102 to K 813 • Offset shaft gear unit F 202 to F 602 • Helical gear unit C 002 to C 812 • Worm gear unit S 002 to S 402													
For complete order code for gear type, see selection and ordering data on pages 3/64 to 3/85													
2nd order code, 1st and 2nd positions: Type													
• Foot-mounted • Tapped hole group • Flange (round) • Foot-mounted and flange (round) • Foot-mounted and tapped hole group													
2nd order code, 3rd position: Gear unit shaft end													
Helical gear unit:		Offset shaft gear unit:			For bevel and worm gearboxes:								
• Solid shaft with fitted key		• Solid shaft with fitted key, gearbox side 5			• Solid shaft with fitted key, gearbox side 4								
• Hollow shaft with keyway, insertion gearbox side 5		• Hollow shaft with keyway, insertion gearbox side 5			• Hollow shaft with keyway, insertion gearbox side 4								
• Hollow shaft with tensioning element, shrink disk, side 6, insertion gearbox side 5		• Hollow shaft with tensioning element, shrink disk, side 6, insertion gearbox side 5			• Hollow shaft with tensioning element, shrink disk, side 4, insertion gearbox side 3								
					• Solid shaft with fitted key, gearbox side 3								
					• Hollow shaft with keyway, insertion gearbox side 3								
					• Hollow shaft with tensioning element, shrink disk, side 3, insertion gearbox side 4								
3rd order code, 1st and 2nd positions: Type of construction/mounting position													
<u>Type of construction for</u>		<u>Mounting position for</u>											
Helical gear unit:		Offset shaft, bevel and worm gearboxes:											
• IM B3 / IM B5 / IM B14 / IM B34 / IM B35		• EL 1											
• IM B7		• EL 2											
• IM B8		• EL 3											
• IM B6		• EL 4											
• IM V1		• EL 5											
• IM V3 / IM V6 / IM V19		• EL 6											
• IM V5		—											
• IM V18		—											
3rd order code, 3rd position: Connector attachment position													
• Connector position on gearbox side 2													
• Connector position on gearbox side 4													
• Connector position on gearbox side 1													
• Connector position on gearbox side 3													

Selection and ordering data

Order codes for 1FK7 geared servomotors

Order no. geared motor + order codes

4th order code, torque bracket for bevel (K) and worm gear units (S)			Q	□	□	and G 2	or □ ¹⁾	G 2	□ ¹⁾
Torque bracket position			Gear unit type and size						
Torque bracket	Side 1, eye side 4	K 102, S 102	Q 1	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 102, S 102	Q 1	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 102, S 102	Q 1	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 102, S 102	Q 1	5	G 2	7	G 2	4	
	Side 2, eye side 4	K 102	Q 1	6	G 2	3	G 2	8	
	Side 2, eye side 3	K 102	Q 1	7	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 202, S 202	Q 2	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 202, S 202	Q 2	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 202, S 202	Q 2	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 202, S 202	Q 2	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 302, S 302	Q 3	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 302, S 302	Q 3	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 302, S 302	Q 3	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 302, S 302	Q 3	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 402, S 402	Q 4	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 402, S 402	Q 4	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 402, S 402	Q 4	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 402, S 402	Q 4	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 513	Q 5	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 513	Q 5	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 513	Q 5	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 513	Q 5	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 613	Q 6	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 613	Q 6	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 613	Q 6	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 613	Q 6	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 713	Q 7	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 713	Q 7	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 713	Q 7	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 713	Q 7	5	G 2	7	G 2	4	
Torque bracket	Side 1, eye side 4	K 813	Q 8	2	G 2	3	G 2	8	
	Side 1, eye side 3	K 813	Q 8	3	G 2	7	G 2	4	
	Side 5, eye side 4	K 813	Q 8	4	G 2	3	G 2	8	
	Side 5, eye side 3	K 813	Q 8	5	G 2	7	G 2	4	

¹⁾ Options **Q12** to **Q85** can be combined only with the following order codes:
B.. or **E..** with **G23** or **G24** or **G27** or **G28**

AC motors

Geared motors

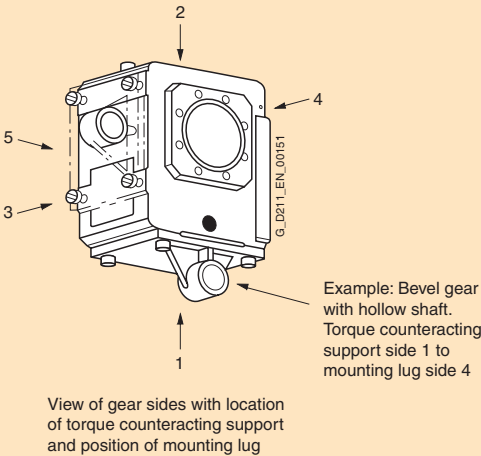
1FK7 geared servomotors

Selection and ordering data

5th order code, other options

- Paint finish, matt black RAL 9005
- Paint finish, cream white RAL 9001
- Paint finish, reseda green RAL 6011
- Paint finish, pebble gray RAL 7032
- Paint finish, sky blue RAL 5015
- Paint finish, light ivory RAL 1015
- Paint finish, ash gray RAL 7000
- Paint finish, white aluminum RAL 9006
- Paint finish, gentian blue RAL 5010
- Paint finish, pure orange RAL 2004
- Food-grade gear oil (1FK7... - 5A.71 - 1...7 - Z)

X	0	1
X	0	2
X	0	3
X	0	4
X	0	5
X	0	6
X	0	7
X	0	8
X	1	2
X	1	9
Q	9	0



Overview of possible combinations of option Gxx with Hxx and Qxx

		Gear type				Permissible H options		
		Helical	Offset shaft	Bevel	Worm	Permissible H option for helical	Permissible H option for offset shaft	Permissible H option for bevel and worm
Description of options		Order code for option Gxx				Order code for option Hxx		
G11	Foot-mounted, solid shaft with fitted key	✓				H1x to H4x		
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)	✓		✓	✓ ¹⁾	H1x, H6x, H8x		H1x to H6x
G23	Tapped hole group, solid shaft with keyway (insertion gearbox side 5 for offset shaft, insertion gearbox side 4 for bevel and worm)		✓	✓	✓ ¹⁾		H1x to H6x	H1x to H6x, Qxx
G24	Tapped hole group, hollow shaft with tensioning element (shrink disk on gearbox side 6 and insertion side 5 for offset shaft; shrink disk on gearbox side 4 and insertion side 3 for bevel and worm)		✓	✓	✓ ¹⁾			
G25	Tapped hole group, solid shaft with fitted key (gearbox side 3)			✓	✓ ¹⁾			H1x to H6x
G27	Tapped hole group, hollow shaft with fitted key (insertion gearbox side 3)			✓	✓ ¹⁾			H1x to H6x, Qxx
G28	Tapped hole group, hollow shaft with tensioning 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; side 4 for bevel and worm)	✓	✓	✓	✓ ¹⁾	H1x, H5x, H6x	H1x to H6x	H1x to H6x
G33	Flange (round), hollow shaft with keyway (insertion gearbox side 4)		✓	✓	✓ ¹⁾			
G34	Flange (round), hollow shaft with tensioning element, shrink disk on gearbox side 6 and insertion side 5 for offset shaft; shrink disk on gearbox side 4 and insertion side 3 for bevel and worm)		✓	✓	✓ 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 tensioning element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)			✓	✓ ¹⁾			

Qxx: New options, torque bracket

H2x: Construction type IM B7 for helical gearboxes

¹⁾ Not for worm gear size S002 (E0x).

AC motors

Geared motors

1FK7 geared servomotors

Overview of possible combinations of option Gxx with Hxx and Qxx

		Gear type				Permissible H options		
		Helical	Offset shaft	Bevel	Worm	Permissible H option for helical	Permissible H option for offset shaft	Permissible H option for bevel and worm
Description of options		Order code for option Gxx				Order code for option Hxx		
G51	Foot-mounted and flange (round), solid shaft with fitted key (gearbox side 4 for bevel and worm)	✓ ¹⁾		✓ ²⁾	✓	H1x, H2x		H1x to H6x
G53	Foot-mounted and flange (round), hollow shaft with keyway (insertion gearbox side 4)			✓	✓			
G54	Foot-mounted and flange (round), hollow shaft with tensioning element (shrink disk on gearbox side 4 and insertion side 4 for bevel and worm)			✓	✓			
G55	Foot-mounted and flange (round), solid shaft with fitted key (gearbox side 3)			✓	✓			
G57	Foot-mounted and flange (round), hollow shaft with keyway (insertion gearbox side 3)			✓	✓			
G58	Foot-mounted and flange (round), hollow shaft with tensioning element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)			✓	✓			
G61	Foot-mounted and tapped hole group, solid shaft with fitted key (gearbox side 4 for bevel and worm)	✓		✓	✓	H1x, H2x		H1x to H6x
G63	Foot-mounted and tapped hole group, hollow shaft with keyway (insertion gearbox side 4)			✓	✓			
G64	Foot-mounted and tapped hole group, hollow shaft with tensioning element (shrink disk on gearbox side 4 and insertion side 4 for bevel and worm)			✓	✓			
G65	Foot-mounted and tapped hole group, solid shaft with fitted key (gearbox side 3)			✓	✓			
G67	Foot-mounted and tapped hole group, hollow shaft with keyway (insertion gearbox side 3)			✓	✓			
G68	Foot-mounted and tapped hole group, hollow shaft with tensioning element (shrink disk on gearbox side 3 and insertion side 4 for bevel and worm)			✓	✓			

Qxx: New options, torque bracket

H2x: Construction type IM B7 for helical gearboxes

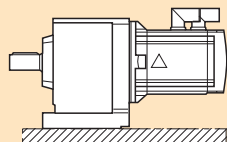
¹⁾ The flange diameter for helical gearboxes with foot mounting and flange is one diameter grade smaller in each case than the diameter for helical units with flange only (without foot mounting).

²⁾ Only for 1FK706.. to 1FK10.. with gear unit size K 513 to K 813 (B5x to B8x). These values refer to $n = 2500$ rpm.

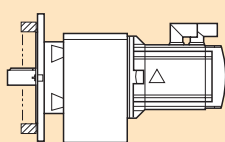
Selection and ordering data

Helical geared motors - types of construction

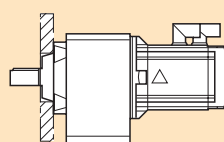
IM B 3



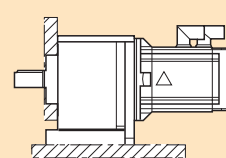
IM B 5



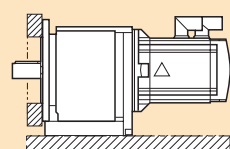
IM B 14



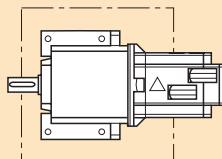
IM B 34



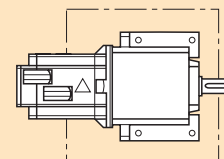
IM B 35



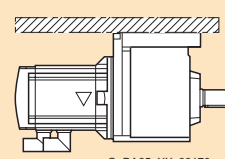
IM B 6



IM B 7

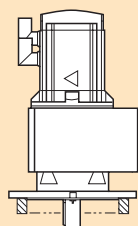


IM B 8

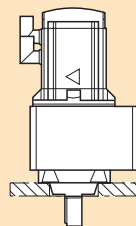


G_DA65_XX_00170

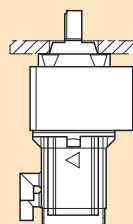
IM V 1



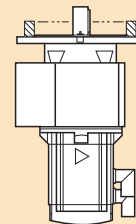
IM V 18



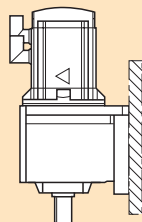
IM V 19



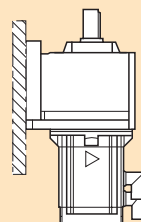
IM V 3



IM V 5



IM V 6



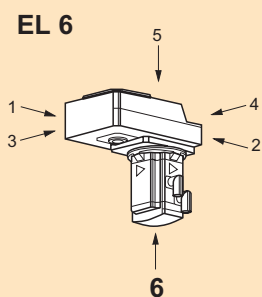
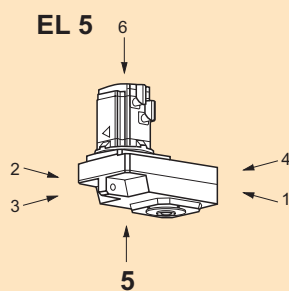
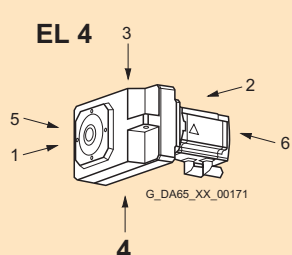
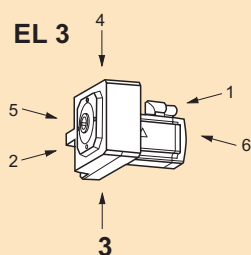
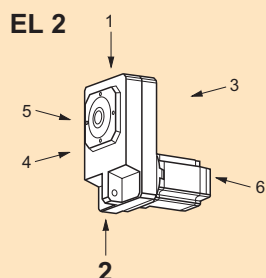
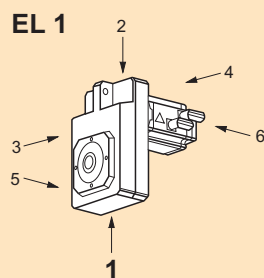
AC motors

Geared motors

1FK7 geared servomotors

Selection and ordering data

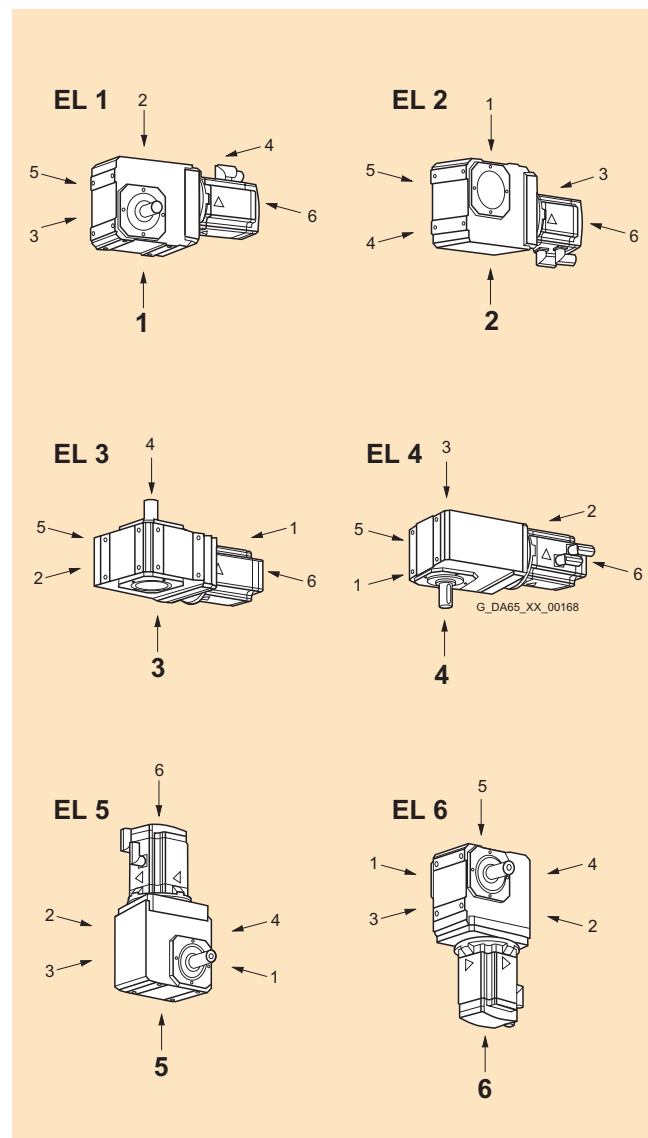
Offset shaft geared motors - mounting positions EL 1 to EL 6



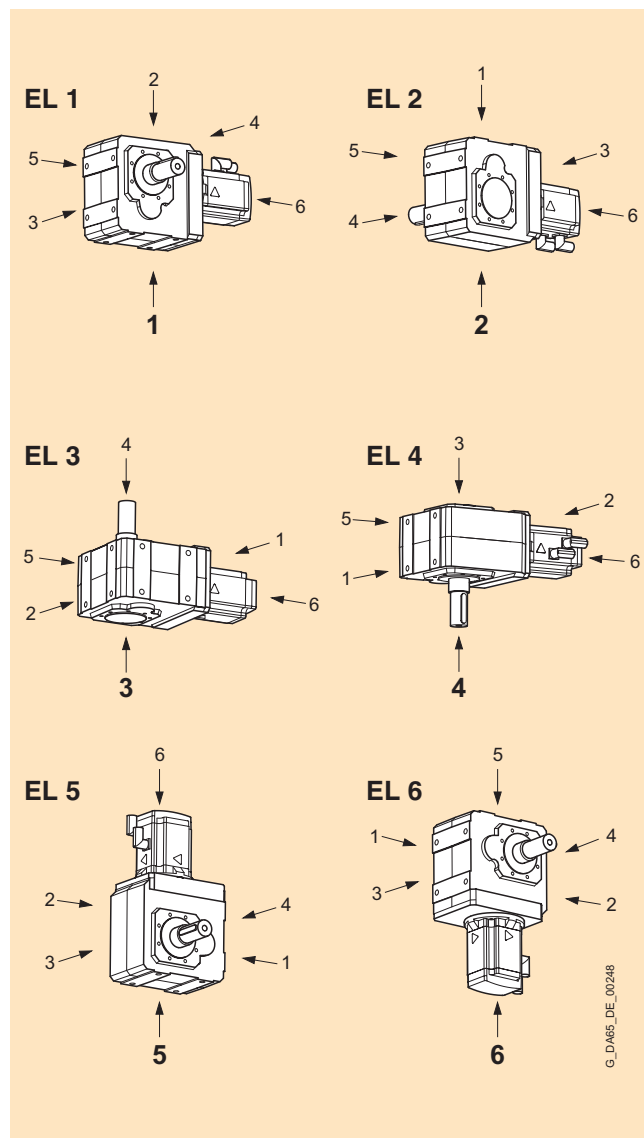
Selection and ordering data

Bevel geared motors - mounting positions EL 1 to EL 6

Gearbox sizes K1 to K4



Gearbox sizes K5 to K8



AC motors

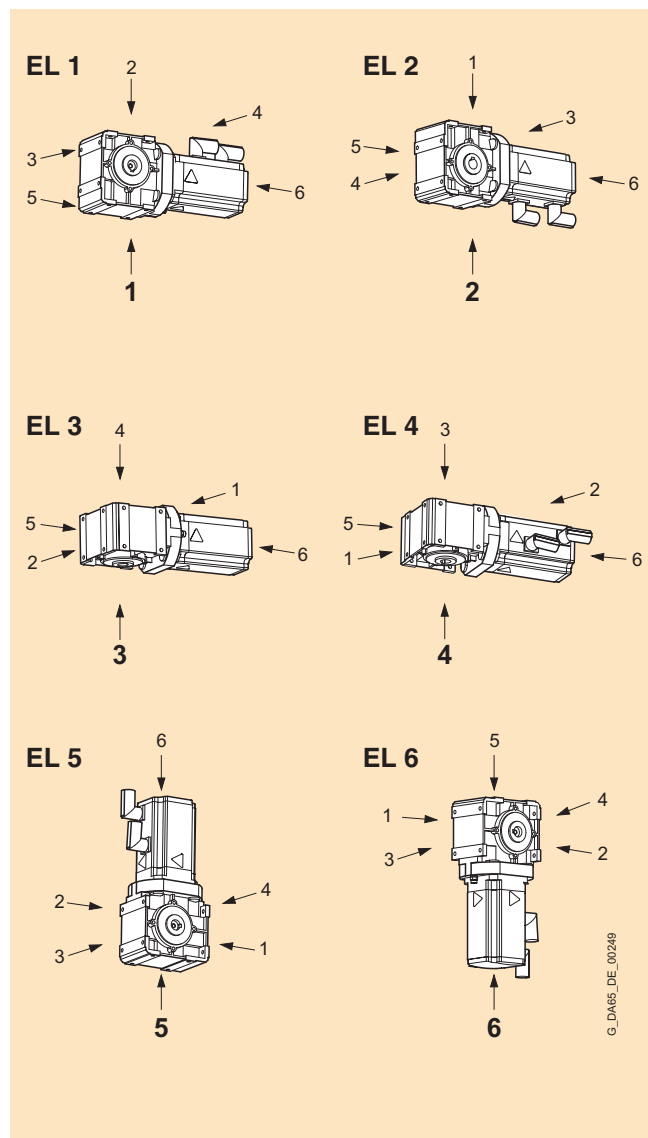
Geared motors

1FK7 geared servomotors

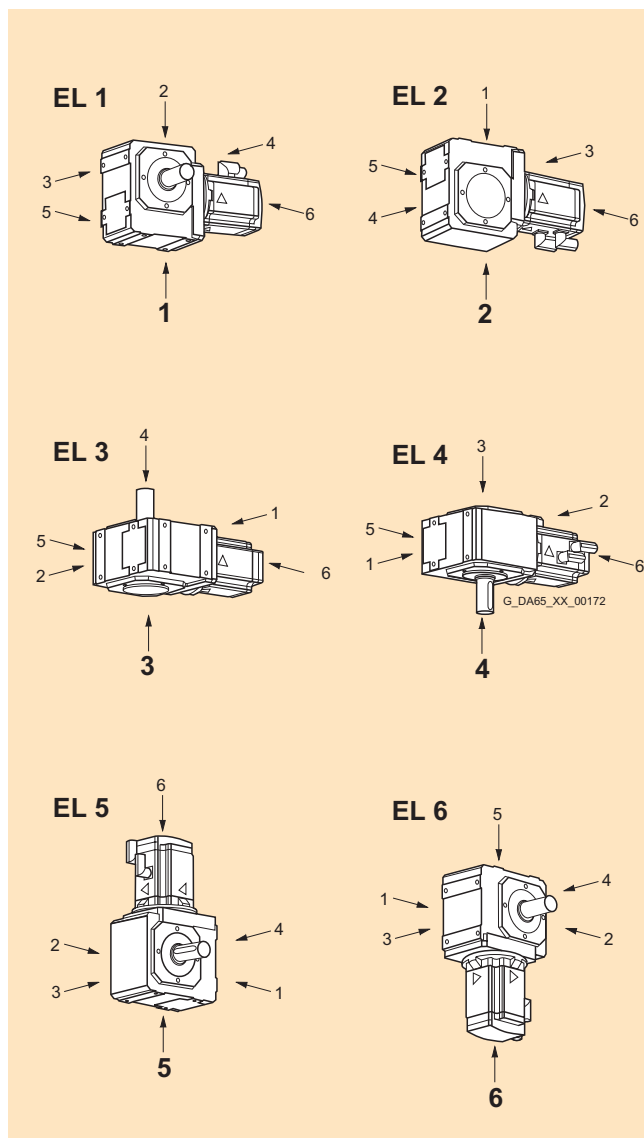
Selection and ordering data

Worm geared motors - mounting positions EL 1 to EL 6

Gearbox size S0



Gearbox sizes S1 to S4



Selection and ordering data

Connector mounting position

