

XtraforsPrime AC Servomotors



Features

- Compact size
- High torque
- High speed
- No cogging
- Modular construction

Power

- Stall torque 0.25 to 75 Nm
- Size 34 to 192 mm

Executions

- Wide range of standard models
- Customized versions
- CE compliant, UL listed

XtraforsPrime, AC Servomotors

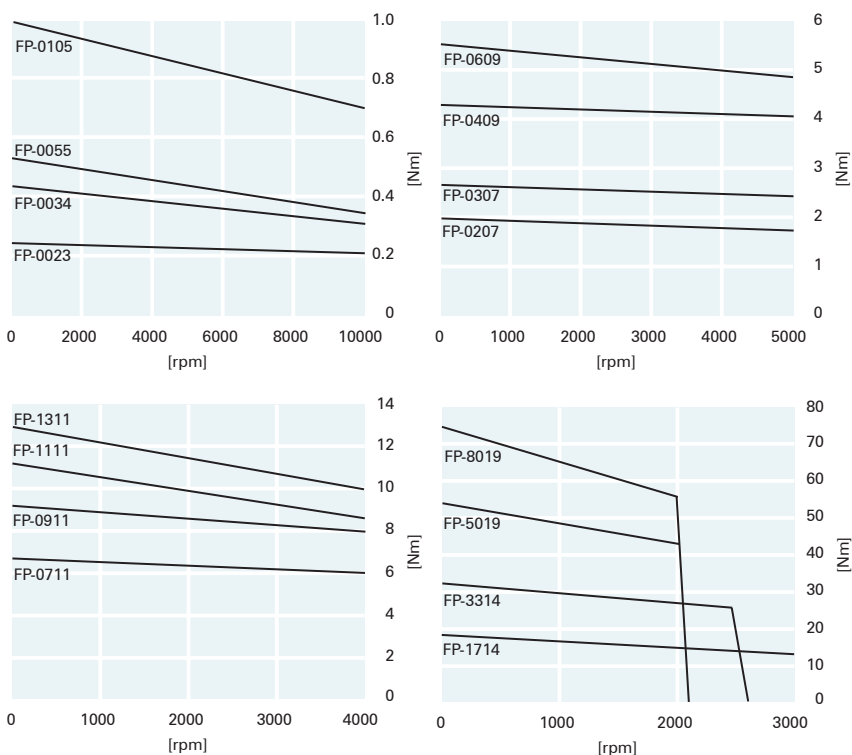
The modular construction concept is the basis for the wide range of standard models. The slotless stator design results in outstanding technical properties such as high speed, high torque, zero cogging, minimal torque ripple, high efficiency and high rigidity. Thus, these motors are perfectly suited for various demanding servo applications.

Technical data

Type	Stall values		Nominal values		Peak values			Brake	Length
	Torque	Current	Torque	Speed	Torque	Current	Speed*	Torque	L
	M_0	i_0	M_{nom}	n_{nom}	M_{max}	i_{max}	n_{max}	M_{nom}	without brake
	[Nm]	[Arms]	[Nm]	[rpm]	[Nm]	[Arms]	[rpm]	[Nm]	[mm]
FP-0023	0.24	1.40	0.23	3000	1.44	8.40	36 000	0.4	125.0
FP-0034	0.44	2.03	0.40	3000	2.64	12.2	30 000	0.4	140.5
FP-0055	0.54	2.15	0.46	3000	3.24	12.9	22 000	1.0	90.00
FP-0105	1.00	2.51	0.90	3000	6.00	15.0	15 000	1.0	110.0
FP-0207	2.00	3.04	1.85	3000	12.0	18.2	9 500	2.0	116.5
FP-0307	2.70	3.63	2.54	3000	16.2	21.8	8 500	4.5	137.5
FP-0409	4.20	3.57	4.15	3000	25.2	21.4	5 300	4.5	147.5
FP-0609	5.60	4.97	5.12	3000	33.6	29.8	5 500	9.0	165.5
FP-0711	6.50	6.70	6.10	3000	39.0	40.2	6 300	9.0	149.0
FP-0911	9.00	7.22	8.20	3000	54.0	43.3	5 000	9.0	173.0
FP-1111	11.0	8.14	9.10	3000	66.0	48.9	4 600	18	197.0
FP-1311	13.2	9.77	10.8	3000	79.2	58.6	4 600	18	221.0
FP-1714	18.3	10.7	15.5	1500	110	64.0	3 500	18	215.0
FP-3314	31.5	12.8	27.5	1500	189	76.8	2 500	36	317.0
FP-5019	54.5	19.1	46.0	1500	327	114	2 000	72	297.5
FP-8019	75.0	22.8	59.0	1500	450	137	2 000	72	348.5

*Valid for operation with servo drive using 400VAC supply

Torque curves



Standard version

- Resolver feedback
- Shaft with keyway
- Protection IP-65
- Rotatable angled connectors
- PTC thermal sensor
- RoHS conform
- UL conform (UL-listed pending)
- Windings: 400VAC, 230VAC and 48VDC

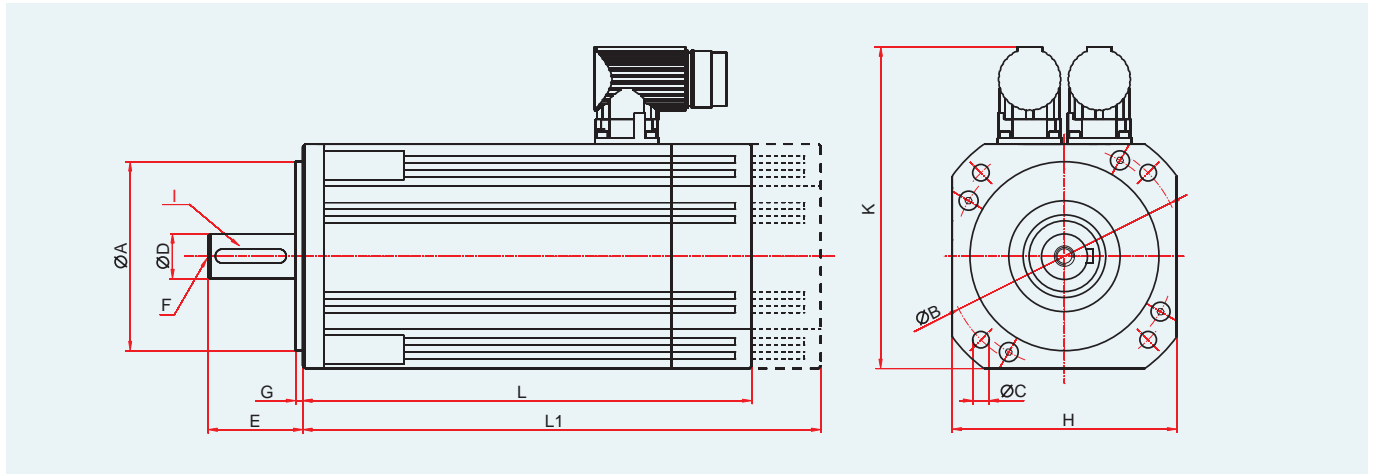
Options

- Various types of incremental encoders, SinCos encoders, Hiperface, EnDat
- Shaft without keyway
- Protection IP-67
- Shaft seal
- Straight connectors
- Direct cable output
- NTC thermal sensor

Customized versions

- Shafts (i.e. hollow shafts)
- Flanges, housings
- Windings, connections
- Executions according to customer's specification

Mechanical dimensions



Dimensions for motor with resolver feedback

Dimensions [mm]	ØA j6	ØB	ØC	ØD k6	E	G	H	I	F	K	L	without brake	with brake
													L1
FP-0023	28	40	4.5	8 j5	25	2.5	38	-	-	48	125.0		160.0
FP-0034	32	45	4.5	8 j5	25	2.5	42	-	-	70	140.5		171.5
FP-0055	40	65	5.5	9	20	2.5	57	A3x3x12	M3x9	107	90.0		129.0
FP-0105	40	65	5.5	9	20	2.5	57	A3x3x12	M3x9	107	110.0		149.0
FP-0207	60	75	5.5	11	23	2.5	70	A4x4x14	M4x10	112	116.5		142.0
FP-0307	60	75	5.5	11	23	2.5	70	A4x4x14	M4x10	112	137.5		165.5
FP-0409	80	100	6.6	19	40	3	90	A6x6x30	M6x16	132	147.5		177.0
FP-0609	80	100	6.6	19	40	3	90	A6x6x30	M6x16	132	165.5		207.0
FP-0711	95	115	9	19	40	3	110	A6x6x30	M6x16	152	149.0		189.0
FP-0911	95	115	9	19	40	3	110	A6x6x30	M6x16	152	173.0		213.0
FP-1111	95	115	9	19	40	3	110	A6x6x30	M6x16	152	197.0		242.0
FP-1311	95	115	9	19	40	3	110	A6x6x30	M6x16	152	221.0		266.0
FP-1714	130	165	11	24	50	3.5	140	A8x7x32	M8x19	182	215.0		258.0
FP-3314	130	165	11	24	50	3.5	140	A8x7x32	M8x19	182	317.0		367.0
FP-5019	180	215	16	32	58	4	192	A10x8x50	M12x28	234	297.5		383.0
FP-8019	180	215	16	32	58	4	192	A10x8x50	M12x28	234	348.5		434.0

Lengths of executions with different encoder models

Type FP	0023	0034	0055	0105	0207	0307	0409	0609	0711	0911	1111	1311	1714	3314	5019	8019
L (without brake)																
Incremental	-	-	112.5	126.5	116.5	137.5	147.5	165.5	162.0	186.0	210.0	234.0	223.0	325.0	310.5	361.5
Endat 2.1	-	-	123.0	143.0	159.0	180.0	185.5	203.5	185.5	209.5	233.5	257.5	266.0	368.0	317.5	368.5
Hiperface	-	-	123.0	143.0	142.0	163.0	158.0	176.0	172.5	196.5	220.5	244.5	258.0	360.0	317.5	368.5
SinCos	-	-	137.0	157.0	159.0	180.0	177.0	195.0	181.0	205.0	229.0	253.0	265.0	367.0	322.5	373.5
L1 (with brake)																
Incremental	-	-	145.0	165.0	162.0	189.0	192.0	215.0	197.0	221.0	258.0	282.0	296.5	398.5	363.0	414.0
Endat 2.1	-	-	167.0	187.0	190.0	217.0	215.0	245.0	220.5	244.5	281.5	305.5	322.5	424.5	368.0	419.0
Hiperface	-	-	159.0	179.0	173.0	200.0	202.5	225.5	205.5	229.5	268.5	292.5	304.0	406.0	368.0	419.0
SinCos	-	-	172.0	192.0	190.0	217.0	215.0	244.5	220.5	244.5	281.5	305.5	318.5	420.5	373.0	424.0

Addresses

Switzerland

Infranor SA
Rue des Uttins 27
CH-1400 Yverdon-les-Bains
Phone +41 24 447 02 90
Fax +41 24 447 02 91
www.infranor.ch
info.ch@infranor.com

Infranor AG
Glattalstrasse 37
CH-8052 Zürich
Phone +41 44 308 50 00
Fax +41 44 308 50 09
www.infranor.ch
info.ch@infranor.com

Germany

Infranor GmbH
Donaustrasse 19a
D-63452 Hanau
Phone +49 6181 18012 0
Fax +49 6181 18012 90
www.infranor.de
info.de@infranor.com

France

Infranor SAS
1, rue Georges Besse
F-92160 Antony
Phone +33 1 56 45 16 00
Fax +33 1 46 74 69 56
www.infranor.fr
info.fr@infranor.com

Spain

Infranor Spain SL
Occitània, 24
E-08911 Badalona
(Barcelona)
Phone +34 93 460 16 31
Fax +34 93 399 96 08
www.infranor.com
info.es@infranor.com

Benelux

Infranor B.V.
Burg. Houtkoperlaan 9
NL - 4051 EW Ochten
Phone +31 344 64 64 17
Fax: +31 344 64 26 96
www.infranor.nl
info.nl@infranor.com

England

Infranor Ltd.
Studio 4, Building 555
Bentwaters Business Park
Rendlesham Suffolk
IP12 2TW
UK
Phone +44 208 144 2152
Fax +44 1394 421 192
www.infranor.com
info.uk@infranor.com

USA

Infranor, Inc.
299 Ballardvale Street Suite 4
USA-Wilmington, MA 01887
Phone +1 978 988 9002
Fax +1 978 988 9112
www.infranor.com
info.usa@infranor.com

China

**Infranor Motion Control
Technology (Shanghai) Co., Ltd.**
Room 601, No.448
Hongcao Rd
P. R. China
CN-200233 Shanghai
Phone +86 (0)21 6145 5455
Fax +86 (0)21 6145 5457
www.infranor.cn
info.cn@infranor.com



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