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Xtrafors Prime 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

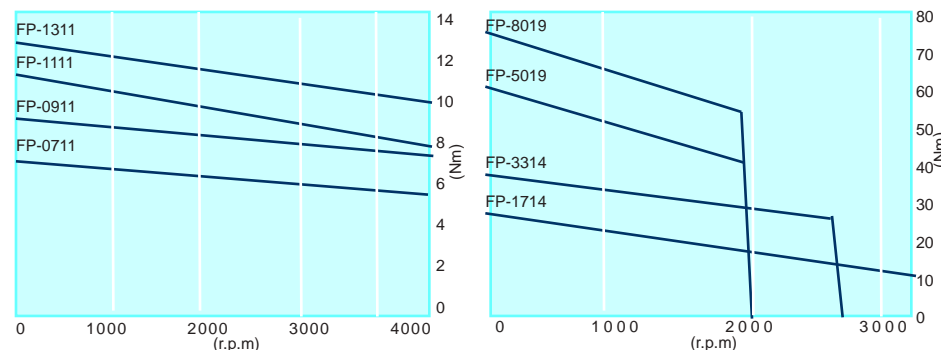
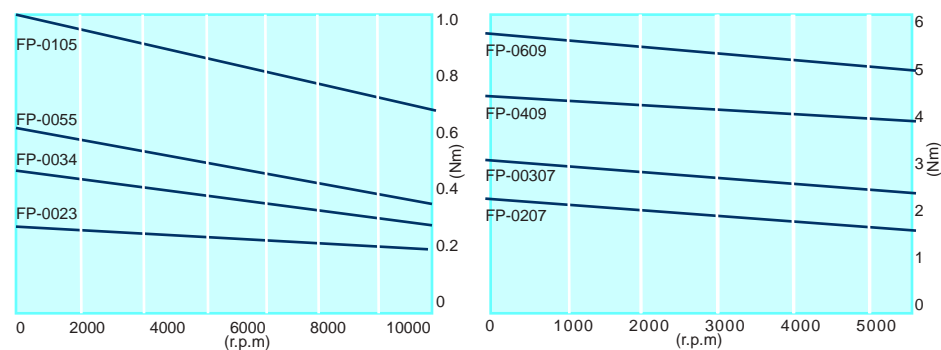
The modular construction concept is the basis for the wide range of standard models. The slotless stator design results in outstanding technical properties such as high speed, high torque, zero cogging, minimal torque ripple, high efficiency and high rigidity. Thus, these motors are perfectly suited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

Technical data

Type	Stall values		Nominal values		Peak values			Brake
	Torque	Current	Torque	Speed	Torque	Current	Speed*	Torque
	M0	i0	Mnom	nnom	Mmax	imax	nmax	Mnom
Type Nominal values	[Nm]	[Arms]	[Nm]	[rpm]	[Nm]	[Arms]	[rpm]	[Nm]
FP-0023	0.24	1.40	0.23	3000	1.44	8.40	36 000	0.4
FP-0034	0.44	2.03	0.40	3000	2.64	12.2	30 000	0.4
FP-0055	0.54	2.15	0.46	3000	3.24	12.9	22 000	1.0
FP-0105	1.00	2.51	0.90	3000	6.00	15.0	15 000	1.0
FP-0207	2.00	3.04	1.85	3000	12.0	18.2	9 500	2.0
FP-0307	2.70	3.63	2.54	3000	16.2	21.8	8 500	4.5
FP-0409	4.20	3.57	4.15	3000	25.2	21.4	5 300	4.5
FP-0609	5.60	4.97	5.12	3000	33.6	29.8	5 500	9.0
FP-0711	6.50	6.70	6.10	3000	39.0	40.2	6 300	9.0
FP-0911	9.00	7.22	8.20	3000	54.0	43.3	5 000	9.0
FP-1111	11.0	8.14	9.10	3000	66.0	48.9	4 600	18
FP-1311	13.2	9.77	10.8	3000	79.2	58.6	4 600	18
FP-1714	18.3	10.7	15.5	1500	110	64.0	3 500	18
FP-3314	31.5	12.8	27.5	1500	189	76.8	2 500	36
FP-5019	54.5	19.1	46.0	1500	327	114	2 000	72
FP-8019	75.0	22.8	59.0	1500	450	137	2 000	72

* Valid for operation with servo drive using 400VAC supply

Performance Curves



Standard version

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

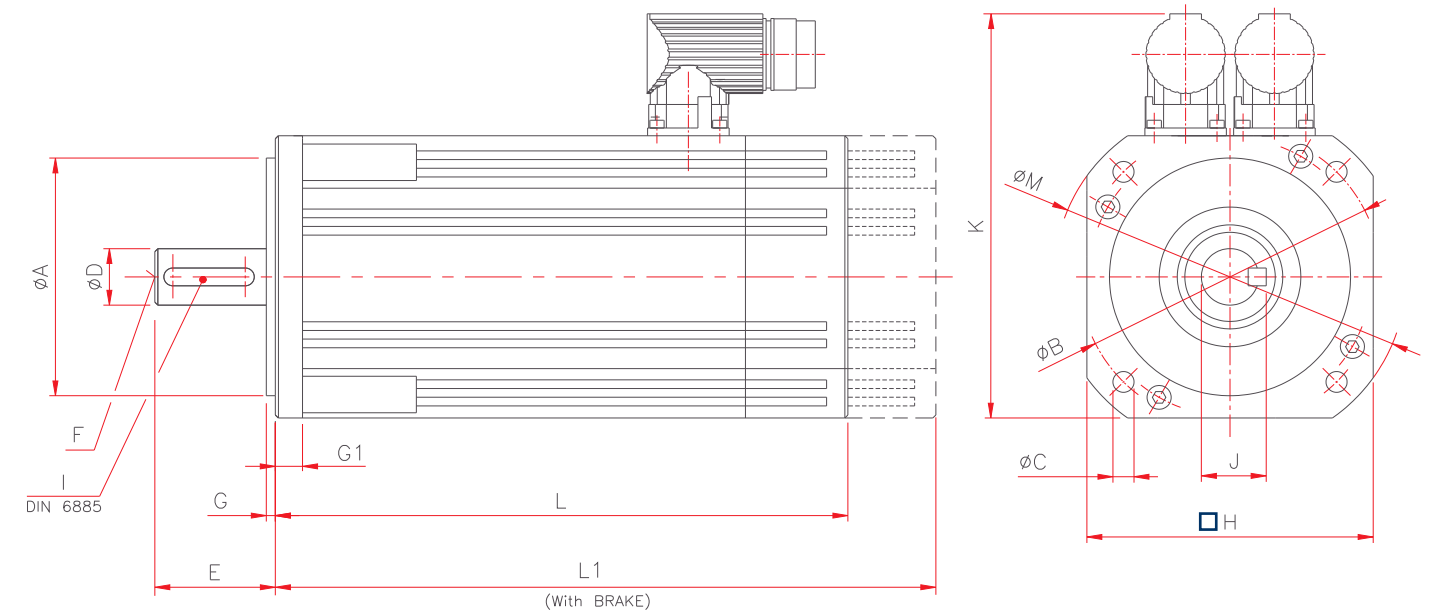
Options

- 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, Flanges, Housings
- Windings, connections
- Executions according to customer's specifications.

Mechanical Dimensions



	øA j6	øB	4xøC	øDk6	E	F	G	G1	□H	I	J ^{+0.1}	K	L	L1	øM
FP-0023	28	40	4,5	8 j5	25	-	2,5	5	38	-	-	48	125	160	48
FP-0034	32	45	4,5	8 j5	25	-	2,5	5	42	-	-	70	140,5	171,5	53
FP-0055	40	65	5,5	9	20	M3X9	2,5	5,5	57	A3X3X12	10,2	107	90	129	74
FP-0105	40	65	5,5	9	20	M3X9	2,5	5,5	57	A3X3X12	10,2	107	110	149	74
FP-0207	60	75	5,5	11	23	M4X10	2,5	7	70	A4X4X14	12,5	112	116,5	142	89
FP-0307	60	75	5,5	11	23	M4X10	2,5	7	70	A4X4X14	12,5	112	137,5	165,5	89
FP-0409	80	100	6,6	19	40	M6X16	3	9	90	A6X6X30	21,5	132	147,5	177	111
FP-0609	80	100	6,6	19	40	M6X16	3	9	90	A6X6X30	21,5	132	165,5	210	111
FP-0711	95	115	9	19	40	M6X16	3	9	110	A6X6X30	21,5	152	149	194	130
FP-0911	95	115	9	19	40	M6X16	3	9	110	A6X6X30	21,5	152	173	218	130
FP-1111	95	115	9	19	40	M6X16	3	9	110	A6X6X30	21,5	152	197	242	130
FP-1311	95	115	9	19	40	M6X16	3	9	110	A6X6X30	21,5	152	221	266	130
FP-1714	130	165	11	24	50	M8X19	3,5	12	140	A8X7X32	27	182	215	258	184
FP-3314	130	165	11	24	50	M8X19	3,5	12	140	A8X7X32	27	182	317	367	184
FP-5019	180	215	16	32	58	M12X28	4	19,5	192	A10X8X50	35	247	297,5	383	240
FP-8019	180	215	16	32	58	M12X28	4	19,5	192	A10X8X50	35	247	348,5	434	240

ENCODERS	FP-0023		FP-0034		FP-0055		FP-0105		FP-0207		FP-0307		FP-0409		FP-0609	
	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1
INCREMENTAL	(**)	(**)	(**)	(**)	112,5	145	132,5	165	116,5	162	137,5	189	147,5	192	165,5	215
ENDAT 2,1	-	-	-	-	123	167	143	187	159	190	180	217	185,5	215	203,5	245
HIPERFACE	-	-	-	-	123	159	143	179	142	173	163	200	158	202,5	176	225,5
SinCos	-	-	-	-	137	172	157	192	159	190	180	217	177	215	195	244,5

ENCODERS	FP-0711		FP-0911		FP-1111		FP-1311		FP-1714		FP-3314		FP-5019		FP-8019	
	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1	L	L1
INCREMENTAL	162	197	186	221	210	258	234	282	223	296,5	325	398,5	310,5	363	361,5	414
ENDAT 2,1	185,5	220,5	209,5	244,5	233,5	281,5	257,5	305,5	266	322,5	368	424,5	317,5	368	368,5	419
HIPERFACE	172,5	205,5	196,5	229,5	220,5	268,5	244,5	292,5	258	304	360	406	317,5	368	368,5	419
SinCos	181	220,5	205	244,5	229	281,5	253	305,5	265	318,5	367	420,5	322,5	373	373,5	424

(**) To be defined