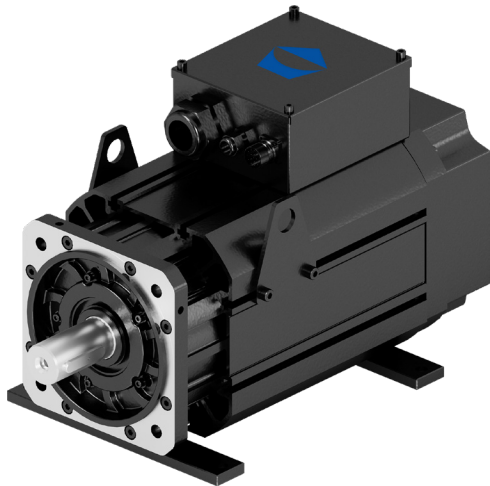


Air-Cooled SERIES

Medium-high power permanent magnet servo motor

POWER: 7.1-185kW
Frame: H110-160



Structure

- Stator: The stator is the stationary part of the motor, made of a coil of wire.
- Rotor: The rotor is the rotating part of the motor, made of a permanent magnet.
- Controller: The controller is the part that supplies power to the motor and controls the speed and position of the rotor.

Product advantages

- Strong overload capability
The motor can achieve up to 2.5 times the rated torque at its rated speed.
 - Overload & Overheat Protection
Built-in dual temperature sensors enable simultaneous temperature monitoring and overload protection.
- High Protection Level
The entire product line meets the IP54 protection standard as a standard feature. Higher protection levels, such as IP68, are available upon request.
 - High Torque Density
The motor achieve a torque density approximately 10% higher than that of competing products on the market.

Applications

- CNC machines: For accurately controlling the positioning of cutting tools.
- Automated manufacturing: In assembly lines and packaging machinery that require high accuracy and repeatability.
- Aerospace: For controlling aircraft components, such as flaps and landing gear.
- Hobby projects: Small servos are used in radio-controlled cars, airplanes, and toy robots.

Technical Data

Motor Type	Rated Power	Rated Speed	Efficiency	Current	Torque	Moment of inertia(J)	Approx WT
	kW	RPM	%	A	Nm	Kg-m ²	Kg
HN-18F0415K3-XXXXB	7.1	1500	90.24	14	45	6.5	31
HN-18F0417K3-XXXXB	7.7	1700	90.65	16.5	43	6.5	31
HN-18F0420K3-XXXXB	8.8	2000	91.16	16.1	42	6.5	31
HN-18F0515K3-XXXXB	8.6	1500	90.71	15.8	55	8.1	33
HN-18F0517K3-XXXXB	9.4	1700	91.08	18.5	53	8.1	33
HN-18F0520K3-XXXXB	10.9	2000	91.58	21.2	52	8.1	33
HN-18F0615K3-XXXXB	10.7	1500	91.31	19	68	9.8	38
HN-18F0617K3-XXXXB	11.6	1700	91.58	24.2	65	9.8	38
HN-18F0620K3-XXXXB	13.4	2000	91.96	23.9	64	9.8	38
HN-18F0715K3-XXXXB	12.4	1500	91.65	24.6	79	11.5	40
HN-18F0717K3-XXXXB	13.5	1700	91.89	29.2	76	11.5	40
HN-18F0720K3-XXXXB	15.7	2000	92.32	28.8	75	11.5	40
HN-18F1015K3-XXXXB	15.2	1500	92.13	31.9	97	13.2	45
HN-18F1017K3-XXXXB	17.3	1700	92.49	31.9	97	13.2	45
HN-18F1020K3-XXXXB	19.9	2000	92.96	38	95	13.2	45
HN-18F1115K3-XXXXB	17.9	1500	92.51	32.8	114	14.8	47
HN-18F1117K3-XXXXB	19.2	1700	92.76	37.8	108	14.8	47
HN-18F1120K3-XXXXB	22.4	2000	93.23	43.7	107	14.8	47
HN-18F1215K3-XXXXB	19.3	1500	92.69	38.2	123	16.4	52
HN-18F1217K3-XXXXB	21.5	1700	93.02	43.9	121	16.4	52
HN-18F1220K3-XXXXB	24.7	2000	93.37	51.3	118	16.4	52
HN-18F1315K3-XXXXB	21.2	1500	92.91	44.1	135	18	54
HN-18F1317K3-XXXXB	23.9	1700	93.21	43.7	134	18	54
HN-18F1320K3-XXXXB	27	2000	93.51	50.5	129	18	54
HN-18F1415K3-XXXXB	22	1500	93	41.5	140	19.8	59
HN-18F1417K3-XXXXB	24.7	1700	93.27	49.5	139	19.8	59
HN-18F1420K3-XXXXB	28.9	2000	93.63	57.8	138	19.8	59
HN-18F1515K3-XXXXB	23.6	1500	93.12	49	150	21.4	61
HN-18F1517K3-XXXXB	26.5	1700	93.4	48.6	149	21.4	61
HN-18F1520K3-XXXXB	30.8	2000	93.75	60	147	21.4	61
HN-18F1715K3-XXXXB	26.2	1500	93.32	55	167	24.7	68
HN-18F1717K3-XXXXB	29.2	1700	93.58	57.3	164	24.7	68
HN-18F1720K3-XXXXB	34.1	2000	93.93	65.1	163	24.7	68
HN-18F2015K3-XXXXB	31.4	1500	93.66	61.2	200	28.1	75
HN-18F2017K3-XXXXB	34.7	1700	93.87	68.2	195	28.1	75
HN-18F2020K3-XXXXB	40.2	2000	94.22	78.3	192	28.1	75
HN-18F2215K3-XXXXB	35.3	1500	93.83	66.3	225	33.1	87
HN-18F2217K3-XXXXB	39.7	1700	94.08	76.6	223	33.1	87
HN-18F2220K3-XXXXB	46.1	2000	94.43	90.7	220	33.1	87

Technical Data



CIITTO SERVO

Motor Type	Rated Power	Rated Speed	Efficiency	Current	Torque	Moment of inertia(J)	Approx WT
	kW	RPM	%	A	Nm	Kg-m ²	Kg
HN-25F1915K3-XXXXA	29.1	1500	93.8	55.1	185	22.8	85
HN-25F1917K3-XXXXA	32	1700	94.2	58.1	180	22.8	85
HN-25F1920K3-XXXXA	36.6	2000	94.3	67.8	175	22.8	85
HN-25F2115K3-XXXXA	33.8	1500	94.3	69.4	215	25.7	92
HN-25F2117K3-XXXXA	37.4	1700	94.5	71.2	210	25.7	92
HN-25F2120K3-XXXXA	42.9	2000	95	81.8	205	25.7	92
HN-25F2615K3-XXXXA	41.6	1500	94.6	84.6	265	31.5	106
HN-25F2617K3-XXXXA	46.3	1700	94.9	88.1	260	31.5	106
HN-25F2620K3-XXXXA	52.4	2000	95.5	104.3	250	31.5	106
HN-25F3115K3-XXXXA	47.9	1500	94.9	86.2	305	37.3	120
HN-25F3117K3-XXXXA	53.4	1700	95.2	104.3	300	37.3	120
HN-25F3120K3-XXXXA	61.8	2000	96.1	111.1	295	37.3	120
HN-25F3615K3-XXXXA	56.9	1500	96.3	113.4	362	89.2	155
HN-25F3617K3-XXXXA	64.1	1700	96.6	123	360	89.2	155
HN-25F3620K3-XXXXA	74.3	2000	96.9	148.3	355	89.2	155
HN-25F4115K3-XXXXA	65.2	1500	96.4	135.2	415	99.8	173
HN-25F4117K3-XXXXA	73	1700	96.7	148.4	410	99.8	173
HN-25F4120K3-XXXXA	84.8	2000	97	165	405	99.8	173
HN-25F4515K3-XXXXA	70.7	1500	96.4	137.5	450	105.1	180
HN-25F4517K3-XXXXA	79.6	1700	96.6	151.7	447	105.1	180
HN-25F4520K3-XXXXA	92.6	2000	97	192.9	442	105.1	180
HN-25F5015K3-XXXXA	79.2	1500	96.4	152.1	504	122	197
HN-25F5017K3-XXXXA	89	1700	96.7	169.7	500	122	197
HN-25F5020K3-XXXXA	103.7	2000	97.1	224	495	122	197
HN-25F5515K3-XXXXA	86.9	1500	96.5	168.9	553	138	211
HN-25F5517K3-XXXXA	97.9	1700	96.8	192	550	138	211
HN-25F5520K3-XXXXA	113.1	2000	97.1	219.9	540	138	211
HN-25F6015K3-XXXXA	95	1500	96.6	192	605	154	233
HN-25F6017K3-XXXXA	106.8	1700	96.9	222.2	600	154	233
HN-25F6020K3-XXXXA	122.5	2000	97.2	259.9	585	154	233