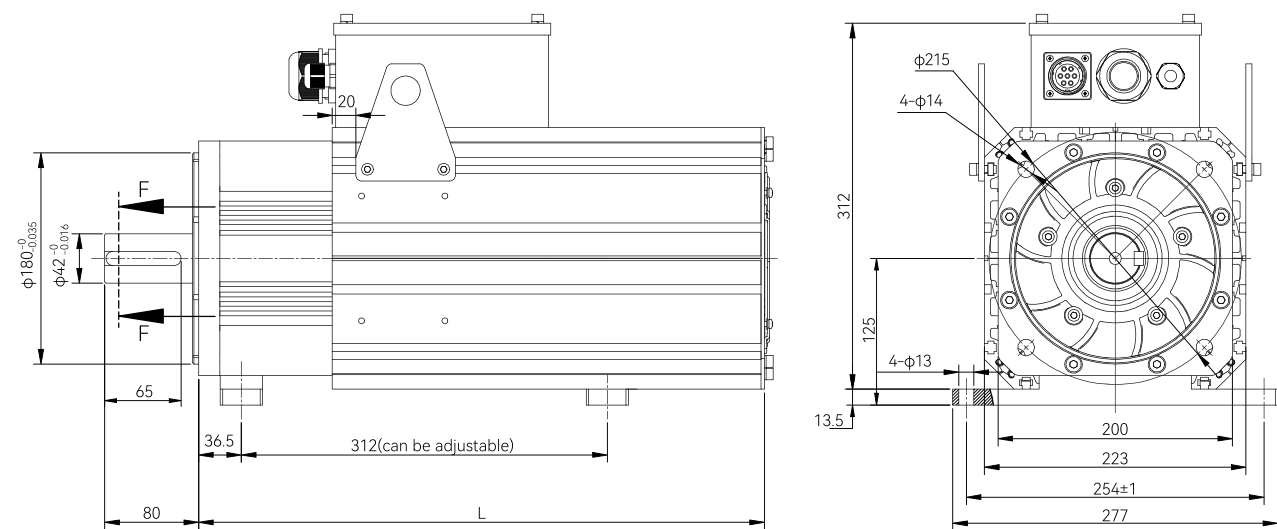
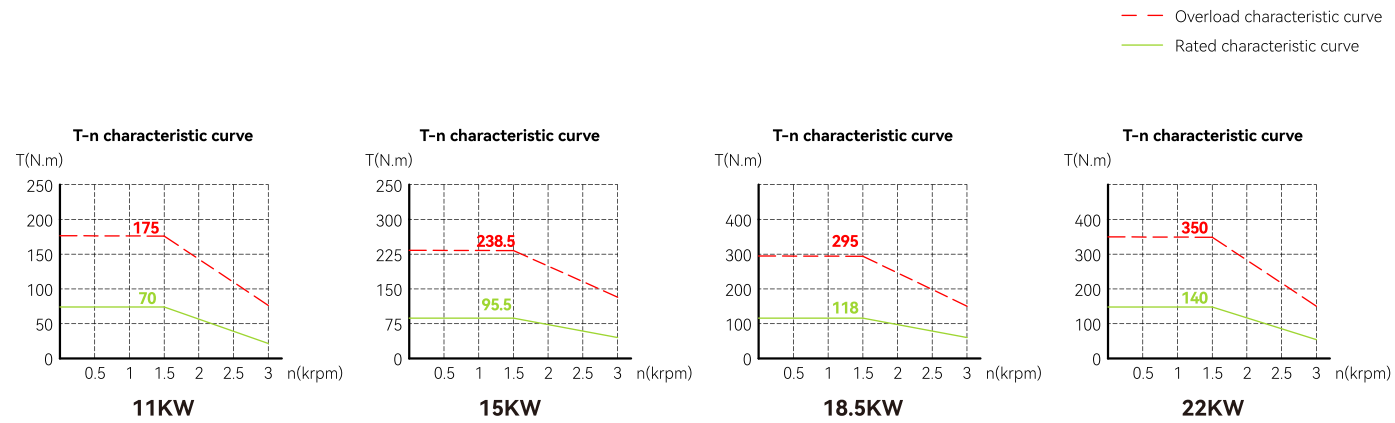


■ External Dimensions



	11KW	11KW with brake	15KW	15KW with brake	18.5KW	18.5KW with brake	22KW	22KW with brake
Models	11D15CH-DN0F	11D15CH-DB0F	15D15CH-DN0F	15D15CH-DB0F	18D15CH-DN0F	18D15CH-DB0F	22D15CH-DN0F	22D15CH-DB0F
L(mm)	380	482	416	518	452	554	488	590

■ TN Curve



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HCFA

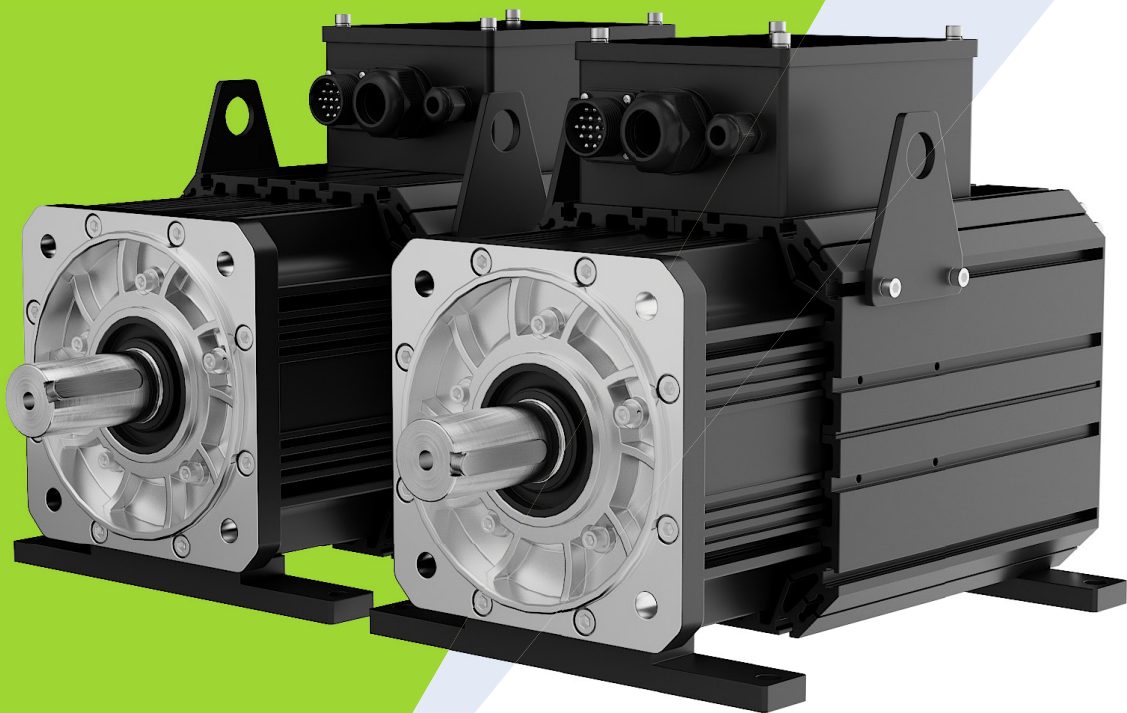


ATC

All information in this document is subject to change without notice.
Manual No. July, 2024 Issue No. 1
Due to the delay in updating the paper version, please refer to the official website for the latest product information.

X7E MOTOR

Servo Motors of Flange 200



■ Naming rule for servo motor

SV-X7E **MM** **20** – **11D** **15C** **H** – **D** **N** **0** **F** – **0** **B** **H**

1 2 3 4 5 6 7 8 9 10 11 12 13

1	Series name	6	Voltage level	11	Voltage level
SV-X7E	Standard type	H	AC380V	0	Signal aviation plug and power box
2	Inertia	7	Encoder	12	Bottom
MM	Middle inertia	D	23-bit optical absolute encoder	B	Standard
3	Flange	8	Brake	13	High-speed mark
20	Flange 200	N	No brake	H	High-speed
		B	With brake		
4	Rated power(W)	9	Shaft output method		
D	×1000	0	Solid, standard key		
E.g.: 11D means 11KW		10	Cooling method		
5	Rated speed(rpm)	F	Air cooling		
C	×100				
E.g.: 15C means 1500rpm					

■ Servo Motor Specifications

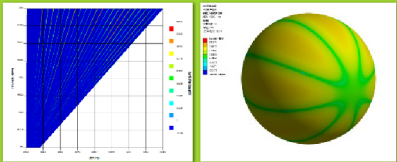
Power	Brake	Models	Voltage (V)	Rated torque (Nm)	Peak torque (Nm)	Rated speed (rpm)	Max. speed (rpm)	Inertia (*10 ⁻⁴ kg·m ²)
11		SV-X7E MM20-11D15CH-DN0F-0BH	380	70	175	1500	3000	75
	√	SV-X7E MM20-11D15CH-DB0F-0BH	380	70	175	1500	3000	81
15		SV-X7E MM20-15D15CH-DN0F-0BH	380	95.5	238.5	1500	3000	98
	√	SV-X7E MM20-15D15CH-DB0F-0BH	380	95.5	238.5	1500	3000	104
18.5		SV-X7E MM20-18D15CH-DN0F-0BH	380	118	295	1500	3000	114
	√	SV-X7E MM20-18D15CH-DB0F-0BH	380	118	295	1500	3000	120
22		SV-X7E MM20-22D15CH-DN0F-0BH	380	140	350	1500	3000	131
	√	SV-X7E MM20-22D15CH-DB0F-0BH	380	140	350	1500	3000	137



High Performance

- High overload torque, up to **250%** overload , faster and more stable start and stop in heavy-load situations;
- Up to **3000rpm**, improving processing efficiency;
- With a high-resolution **23-bit** absolute optical encoder, can improve the low-speed vibration suppression capability and reduce speed fluctuations, making the servo system run more smoothly with higher precision.

Low Noise



Response and noise simulation evaluation

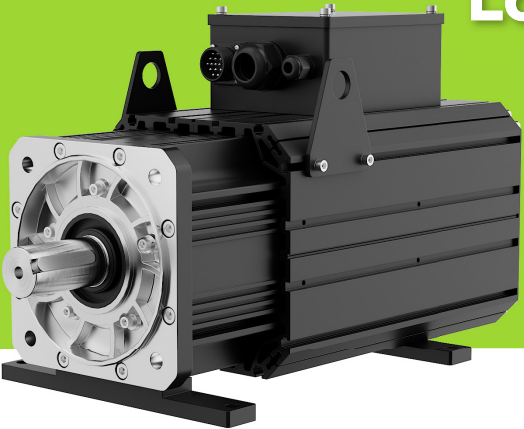
Optimize the design, simulate and evaluate the response and noise, and reduce the noise generated by the motor during operation by **15 %**.



High Reliability

- Insulation grade reaches **H grade**, so the servo motor has better temperature resistance;
- The servo motor is optimized for anti-demagnetization of magnetic steel, so they will never demagnetize.

Low Temperature Rise



Forced air cooling and optimized air duct design can effectively reduce the temperature of the servo motor by **20%** during operation.

