

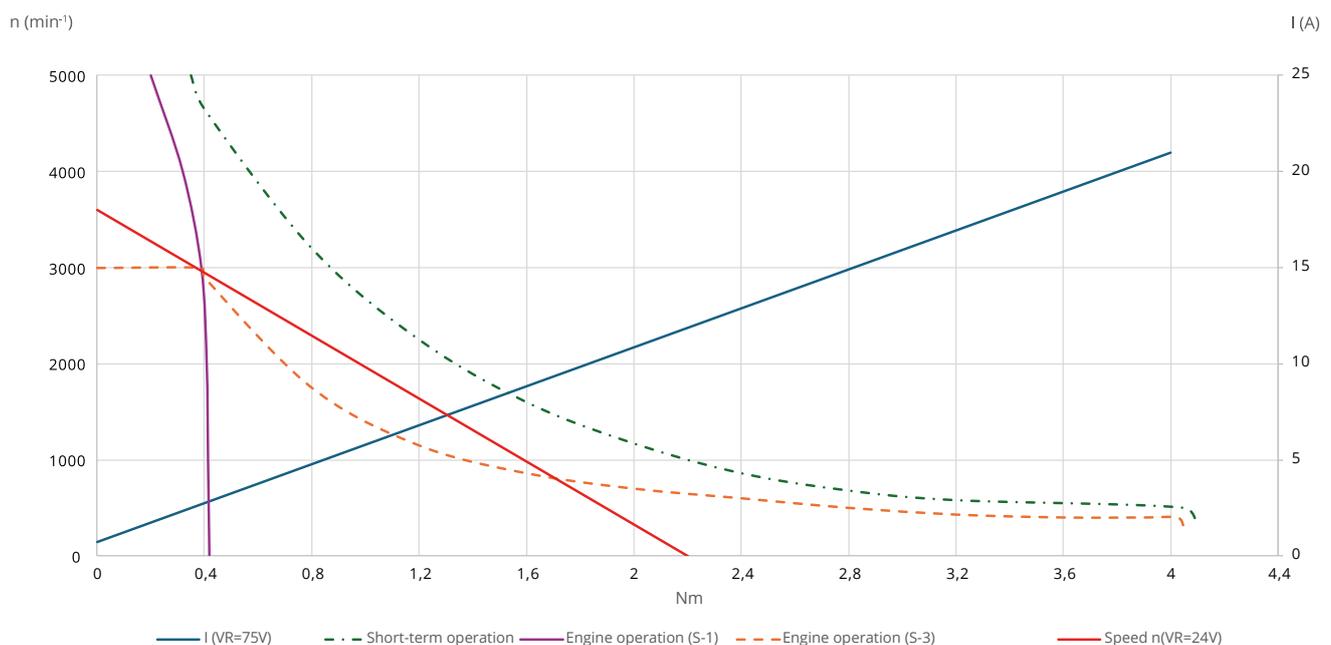
5DA12-7SD Product code: 068a-516
 5DA12-7ST (Tacho) Product code: 068a-549
 5DA12-7SE3E (Encoder) Product code: 068a-680

Technical data

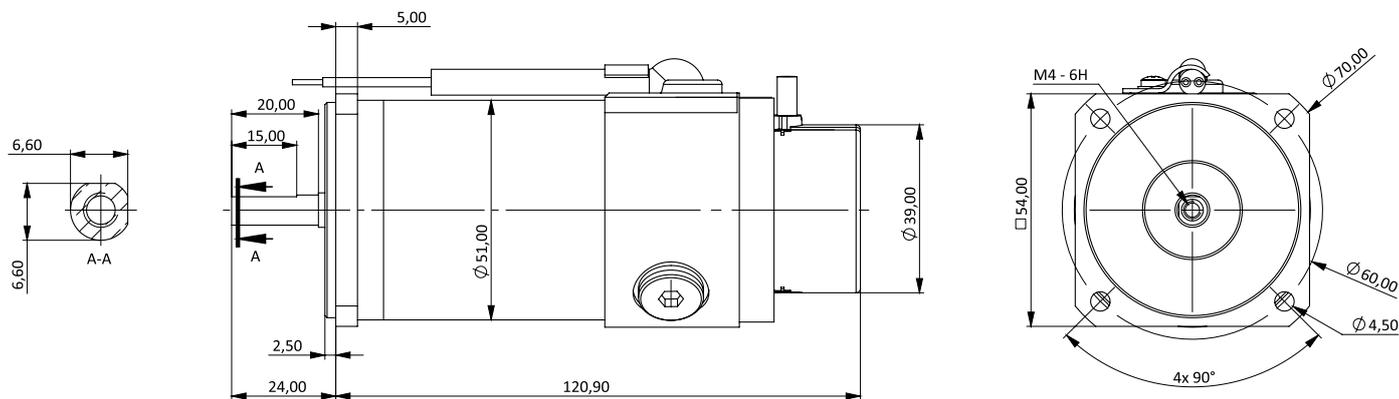
Values at rated voltage			5DA12-xxx
1	Rated power	W	120
2	Rated voltage	V	75
3	Rated torque	Nm	0.39
4	Max. torque	Nm (max)	1.17
5	Rated speed	rpm	3000
6	Max. no-load speed	rpm	4000
7	Rated current	A	2.3
8	Peak current	A	6.9
9	Ambient temperature range	°C	0-40
10	Standard protection classes	IP	40
11	Insulation class	-	F
12	Connection cable length (2x AWG20)	m	1

Characteristics			5DA12-xxx
13	Voltage constant at 1000 rpm	V/rpm	20.3
14	Torque constant	Nm/A	0.197
15	Electrical time constant	ms	0.64
16	Mechanical time constant	ms	4.2
17	Thermal time constant	min	20
18	Armature moment of inertia	Kgm ² x10 ⁻³	3.49
19	Armature inductance	mH	2.64
20	Armature resistance	Ω	4.1
21	Weight without brake	kg	1.18

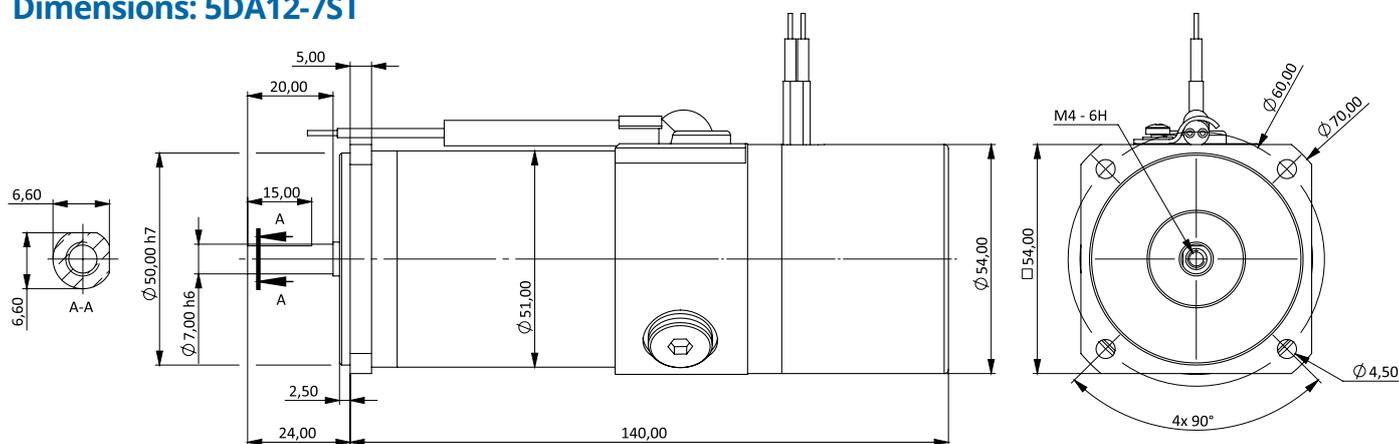
Characteristic curves



Dimensions: 5DA12-7SE3E



Dimensions: 5DA12-7ST



Accessories (optional) on request

- Gearbox
- Brake
- Tacho or encoder
- Different shaft designs (smooth, milled surfaces, with keyway)
- DC servo controller (Kern Drive)
- Matched cable length
- Version with plug
- Special paint finish
- 2nd shaft end
- Higher protection class

Notes

- Tolerances comply with VDE0530. A tolerance of $\pm 10\%$ applies to non-specified values.
- If a shaft seal is fitted on the drive shaft, slightly lower torque levels should be expected due to friction losses.
- The technical data provided in the table and power curves refers to a DC voltage supply with a permissible harmonic content of up to 5%.
- The data is only valid for use in ambient temperatures between 0°C and 40°C. Above or below this temperature range, there is a risk of permanent damage to the product.

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