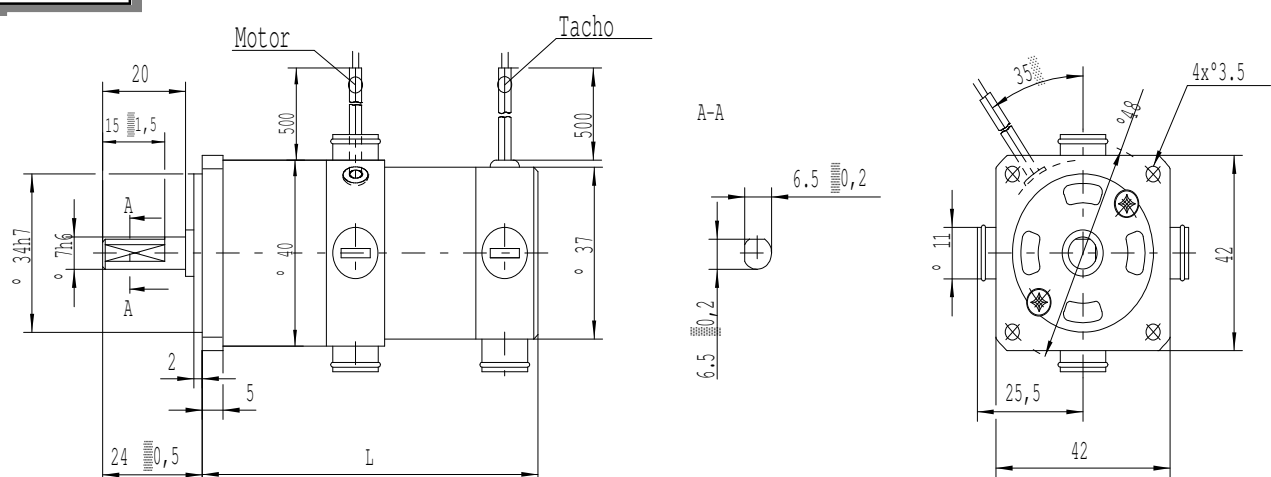


Technical Data

Typ	Type	Type		4DA04-2DT
Nennleistung (S1-Betr.)	Rated power (S1)	Puissance nominale (S1)	W	40
Nennspannung	Rated voltage	Tension nominale	V	24
Nennmoment	Rated torque	Couple nominale	Nm	0.135
Spitzendrehmoment	Peak torque	Couple cretre	Nm	0.405
Nennzahl	Rated speed	Vitesse nominale	min ⁻¹	3000
Max. Leerlaufzahl	Max. speed	Vitesse maxi	min ⁻¹	5000
Nennstrom	Rated current	Courant nominale	A	2.9
Spitzenstrom	Peak current	Courant maxi	A	8.7
Spannungskonstante	Voltage constant	Constante de tension	V/1000min ⁻¹	5.85
Drehmomentkonstante	Torque constant	Constante de couple	Nm/A	0.057
Elektr. Zeitkonstante	Electr. time constant	Const. de temps electr.	ms	0.397
Mech. Zeitkonstante	Mech. time constant	Const. de temps mec.	ms	4.0
Therm. Zeitkonstante	Therm. time constant	Const. de temps therm.	min	8
Ankerträgheitsmoment	Rotor inertia moment	Inertie rotor	Kgm ² x10 ⁻⁵	0.922
Ankerinduktivität	Armature inductance	Inducatance rotor	mH	0.69
Ankerwiderstand	Armature resistance	Resistance rotor	Ohm	1.74
Gewicht ohne Bremse	Weight without brake	Poidds sans frein	Kg	0.50
Gewicht mit Bremse	Weight with brake	Poidds avec frein	Kg	—

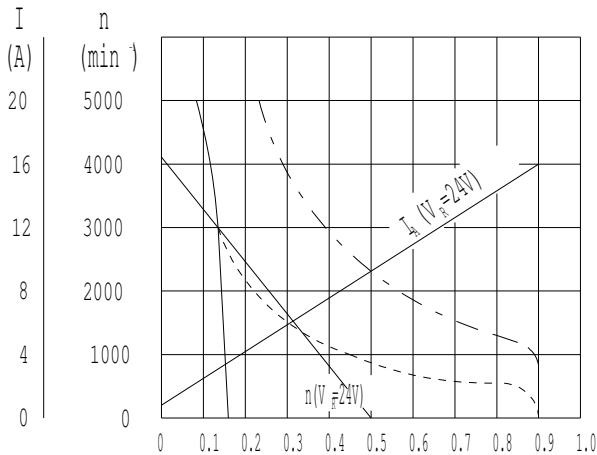
Drawing



	Lenght without Brake	Lenght with Brake
4DA04	93	—

Speed-Torque Characteristic

4DA04



Drawn through line = Permanent operation

Under permanent load in an ambient temperature of 25° C the max. anchor temperature is reached.

Dashed line = Continuable operation range (S-3)

This range may be used under different kinds of load. This range is limited by the influence of temperature, the commutation and the demagnetisation.

Dash-double point-line = Short time operation

The motor may be stressed over short time and continuously to this limitation. If this limitation is exceeded the motor might be irreversible damaged.

Remark

All tolerances of the technical data are given according to VDE 0530. For all figures not given according to VDE 0530 there is a tolerance of +/- 10%.

With versions built to protection class IP54, a minimal lower torque can be expected due to the installation of shaft packing which causes increased friction.

The technical data given in the table and performance curve refer to a direct-current supply with a valid harmonic content of up to 5%.

The data applies to application in an ambient temperature from 0 to 40 degree Celsius.

This temperature range must not be undershot nor exceeded; otherwise an irreversible debilitation of the magnet might be possible.

Technical modifications reserved

Kern GmbH
Antriebstechnik

Gutenbergstraße 11
88046 Friedrichshafen

Tel.: (+49) 07541-5016-0
Fax.: (+49) 07541-5016-28