



AMKASYN
Convection-Cooled
Servo Motors Series DS28
Direct Drive System

AMK



The powerful direct drive system with AMK field-weakening technology.

The extremely application oriented motor series DS28 combines the advantages of high efficiency with high overload capabilities.

These motors are characterized by having low inertia as well as a peak torque of up to 1530 Nm, which allows fast deceleration of the load in emergency situations.

In addition a continuous torque of up to 650 Nm at zero speed can be achieved. AMK's proprietary field-weakening technology for permanent magnet servo motors provides a broad speed range of 1:10 at constant power.

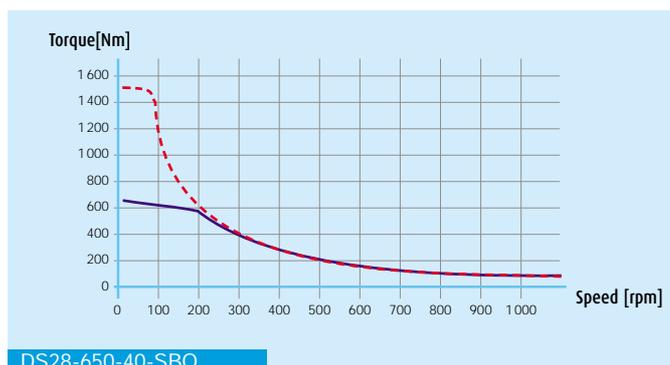
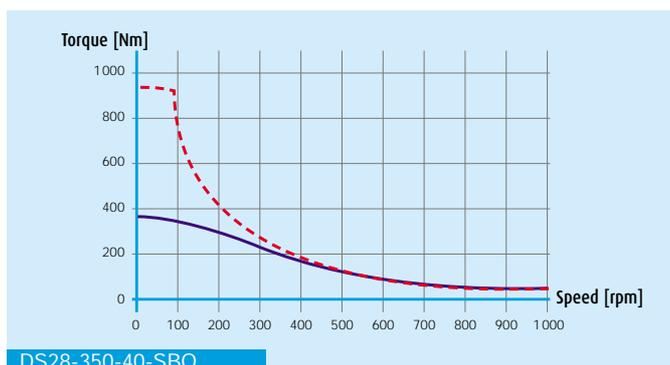
Features and Advantages:

- Rated Power up to 11 kW
- Acceleration Torque up to 1530 Nm
- Speed range up to 1000 rpm
- Continuous Zero Speed Torque up to 650 Nm
- Field-weakening with large range of constant power
- Excellent servo characteristics
- High Power Density
- Integrated high precision encoder feedback
- Standard with motor and encoder connectors



General Data

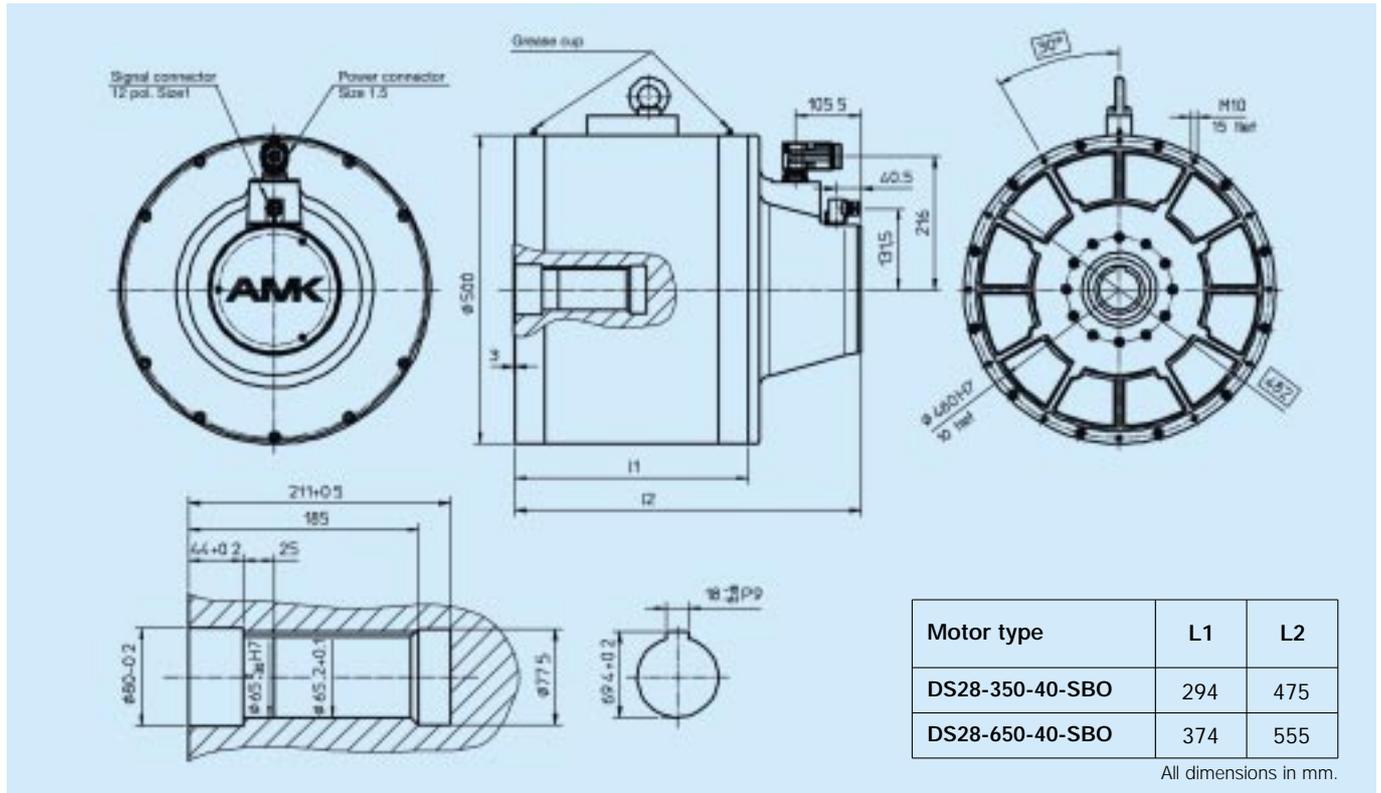
Characteristic



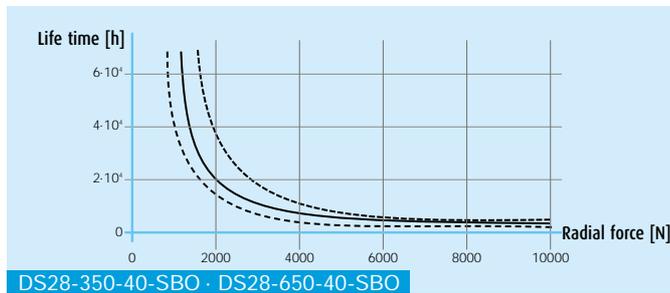
Technical data

Description	Unit	Motor type	
		DS28-350-40-SBO	DS28-650-40-SBO
M_o Continues stall torque	Nm	350	
I_o Continues stall current	A	18,4	34,2
M_N Rated torque	Nm	255	550
P_N Rated power	kW	6,7	11,5
I_N Rated current	A	13,4	29
n_N Rated speed	rpm	250	200
k_T Torque constant	Nm/A	19	19
M_{max} Maximum torque	Nm	920	1530
I_{max} Maximum current	A	66	110
n_{max} Maximum speed	rpm	1200	1200
L_{tt} Terminal to terminal inductance	mH	40	28
R_{tt} Terminal to terminal resistance	Ω	1,25	0,7
J Inertia	kgcm ²	14 828	24 428
m Motor weight	kg	243	370
M_{BR} Brake torque	Nm	230	230
J_{BR} Brake inertia	kgcm ²	28	28
I_{br} Nominal brake current at 24V	A	2,8	2,8

Mechanical dimension



Bearing load



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