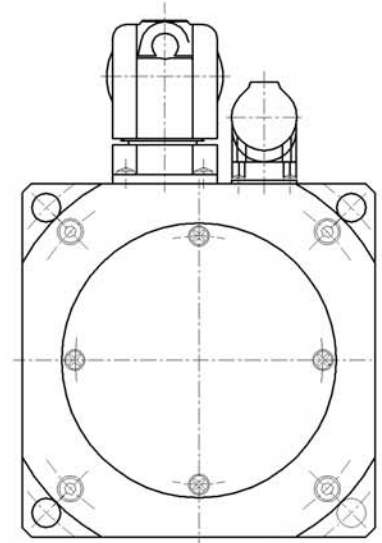
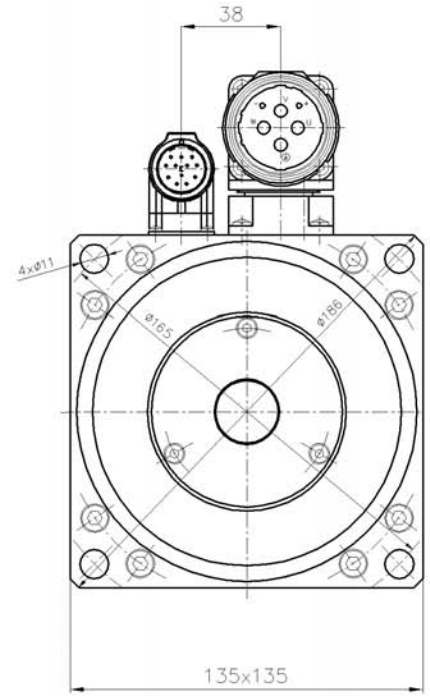
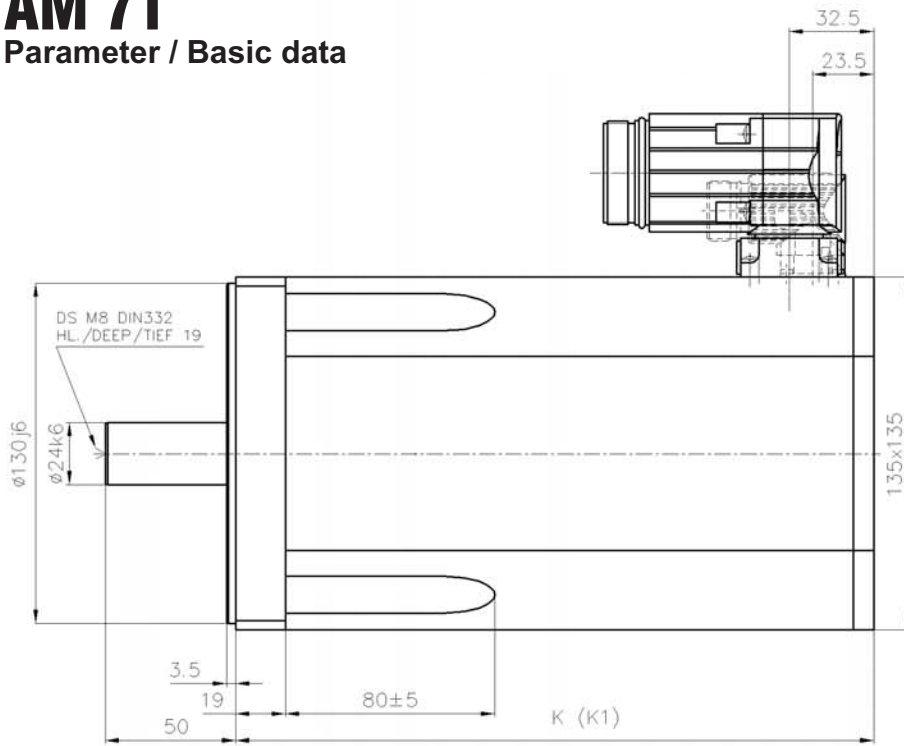


AM 71

Parameter / Basic data



TYP SERVOMOTORU	MOTOR TYPE	MOTORTYP	AM 713	AM 714	AM 716	AM 718
K (bez brzdy)	K (without brake)	K (ohne Bremse)	244	294	344	394
K1 (s brzdou)	K1 (with brake)	K1 (mit Bremse)	293	343	393	—

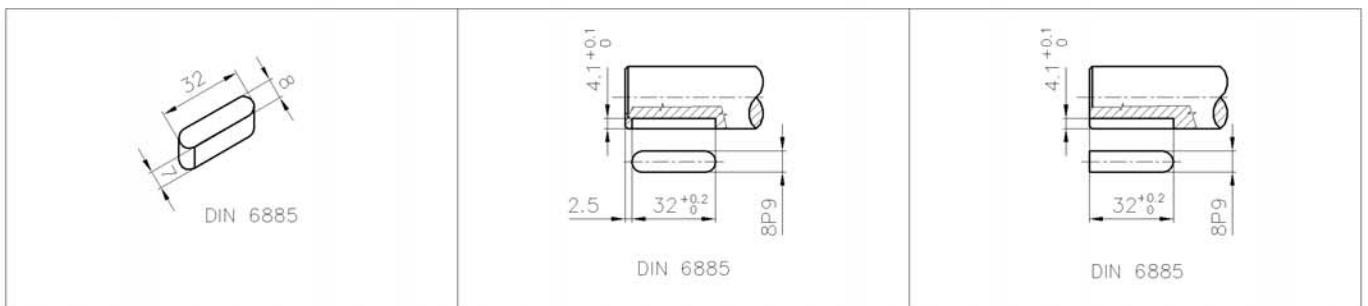
* BRZDA * BRAKE * BREMSE *

SERVOMOTOR	M ₀ [Nm]	MAYR	M _B	t _{1max}	t _{2max}	U _{10C}	n _{max}	J	m
			[Nm]	[ms]	[ms]	[V]	[min ⁻¹]	[kg.m ² .10 ⁻³]	[kg]
AM 713 - B	11,5		20	80	80	24	6000	0,4838	2,74
AM 714 - B	20								
AM 716 - B	25								
AM 718 - B	32								

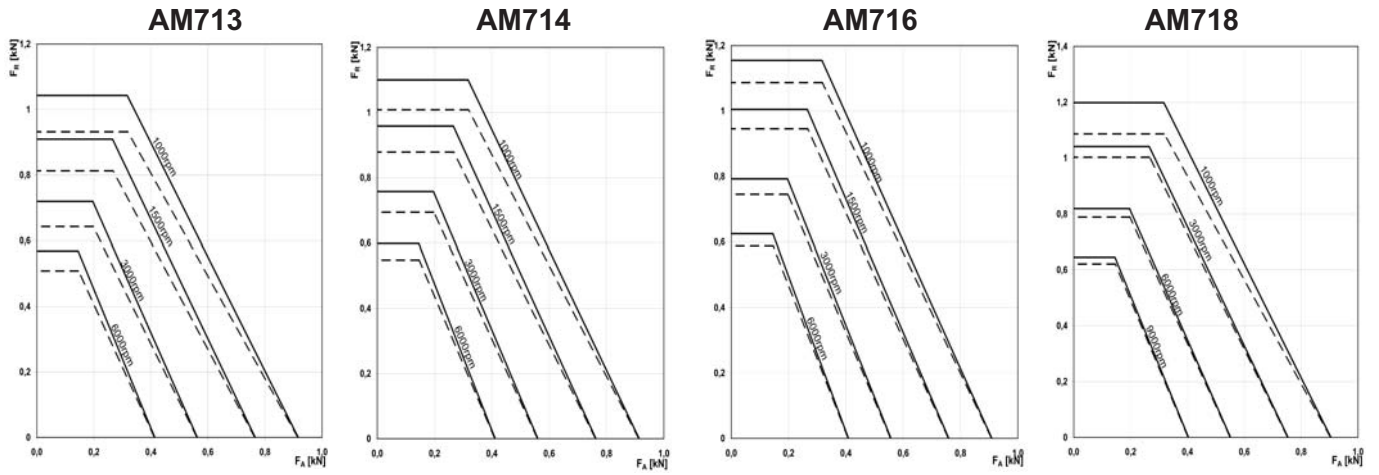
M₀ - brzdný moment / holding torque / Haltemoment
 J - moment setrvačnosti / moment of inertia / Trägheitsmoment
 m - hmotnost / weight / Gewicht
 n_{max} - max. otáčky / max. speed / max. Drehzahl

t_{1max} - max. čas sepnutí (odbrzdění) / max. time of switching-on / max. Einschaltzeit (Lösung der Bremse)
 t_{2max} - max. čas rozepnutí / max. time of switching-off / max. Ausschaltzeit
 U_{10C} - jmenovité napětí / rated voltage / Eingangsspannung

* HŘÍDEL * SHAFT * WELLE *



Radiální a axiální zatížení volného konce
Radial and axial shaft load capacity
Zulässige Radial - und Axialbelastungen der Wellenenden

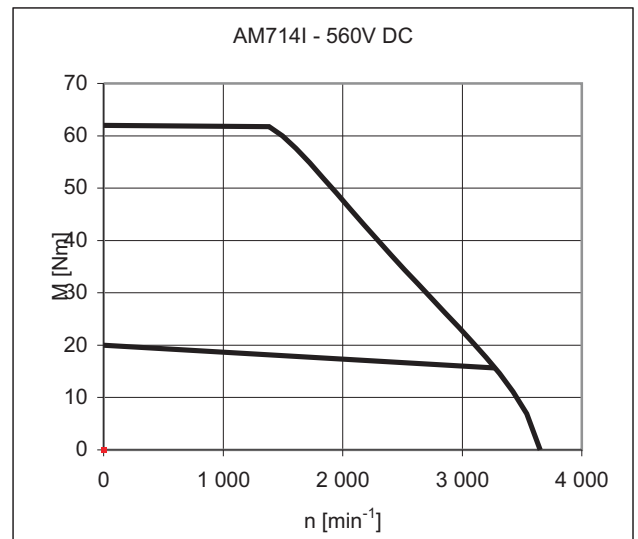
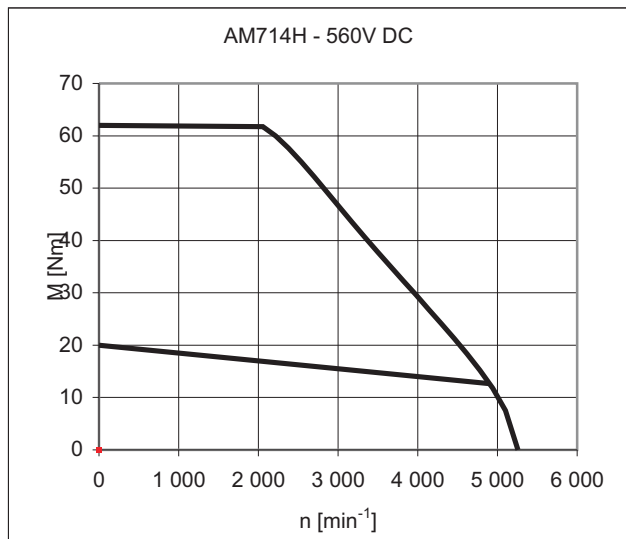
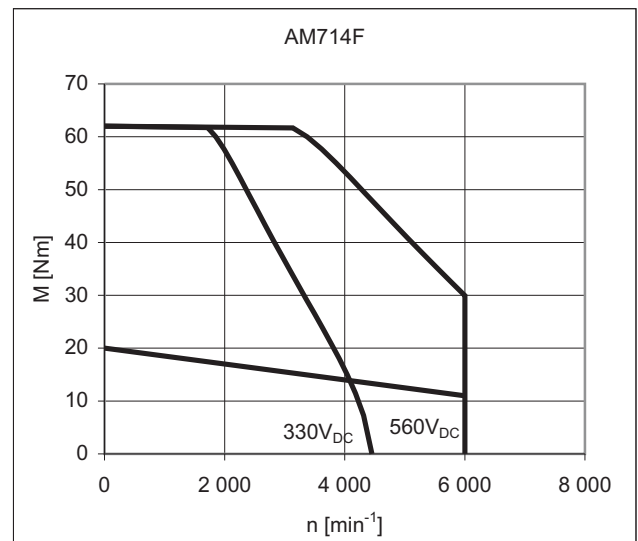
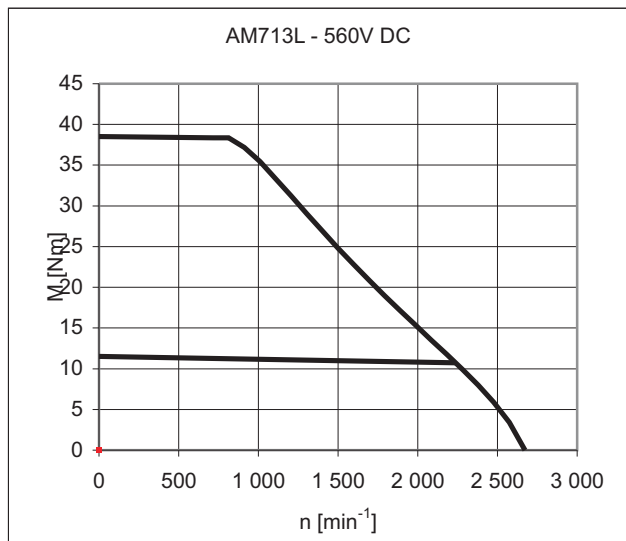
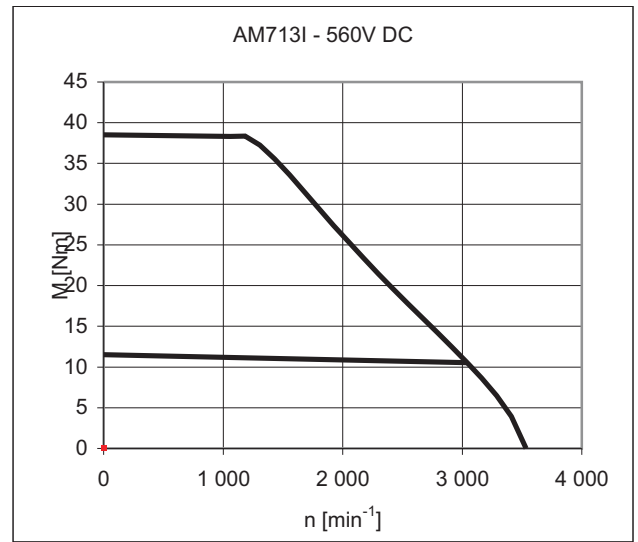
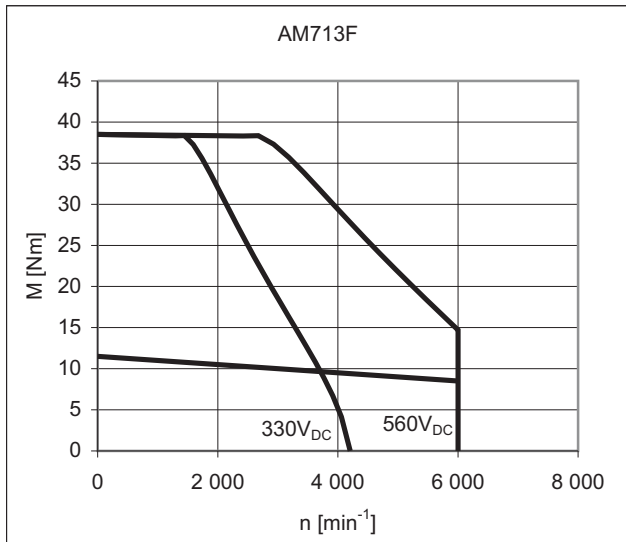


----- na konci hřídele / on the end of the shaft / auf Welle Ende
 _____ uprostřed hřídele / in the middle of the shaft / in Mitte der Welle

Konektory / Connectors / Stecker

AM714N	AM716F	AM716F	AM716H	AM716I	AM718H	AM718I	AM718T	TYPE OF THE MOTOR		
560	330	560	560	560	560	560	560	U_{DC}	V	VOLTAGE OF INTERMEDIATE CIRCUIT
								STANDSTILL VALUES <u>S</u>		
20,0	25,0	25,0	25,0	25,0	32,0	32,0	32,0	M_0	Nm	Standstill torque
8,84	40,7	40,7	28,8	18,8	34,7	24,3	4,59	I_0	A	Standstill current
2,48	0,744	0,744	0,992	1,49	0,992	1,49	8,27	k_M	Nm/A	Torque constant
								RATED VALUES OF THE MOTOR <u>N</u>		
257	145	198	232	272	243	270	238	$U_{N,MOT}$	V	Rated voltage
18,0	17,5	12,0	16,5	19,0	20,0	25,0	31,0	M_N	Nm	Rated torque
7,95	28,8	20,0	19,2	14,4	22,0	19,1	4,45	I_N	A	Rated current
1 500	3 500	5 000	4 000	3 000	4 000	3 000	400	n_N	min ⁻¹	Rated speed
2 819	6 414	6 283	6 911	5 969	8 377	7 853	1 298	P_N	W	Rated power output
150	45	45	60	90	60	90	500	K_E	V.min/1000	Voltage constant
1,43	0,430	0,430	0,573	0,859	0,573	0,859	4,77	k_e	Vs/rad	Voltage constant
								OVERLOADING CAPABILITY AT RATED SPEED <u>Ü</u>		
30,1	38,9	57,5	46,2	31,7	53,1	42,8	57,4	$M_{Ü}$	Nm	Max. torque overload at rated speed
1,68	2,22	4,79	2,80	1,67	2,66	1,71	1,85	$M_{Ü}/M_N$	-	Max. overloading at rated speed
								VALUES OF THE MOTOR AT MAX. SUPPLY VOLTAGE U1		
								MAX. VALUES OF THE MOTOR <u>Max</u>		
62,0	81,0	81,0	81,0	81,0	104	104	104	M_{max}	Nm	Max. torque
37,1	176	176	124	81,1	149	104	19,7	I_{max}	A	Max. current
6 000	6 000	6 000	6 000	6 000	6 000	6 000	6 000	n_{mech}	min ⁻¹	Max. speed
								LIMIT POINT <u>C</u>		
37,1	176	176	124	81,1	149	104	19,7	I_C	A	Current
61,8	80,6	80,5	80,6	80,7	104	104	104	M_C	Nm	Breakdown torque
731	1 904	3 395	2 366	1 513	2 273	1 556	155	n_C	min ⁻¹	Speed
								MAX. USABLE PARAMETERS FOR S1 <u>Nutz</u>		
1 813	4 247	6 000	5 285	3 346	5 012	3 378	543	n_{nutz}	min ⁻¹	Max. usable speed
17,5	15,9	9,40	13,8	18,3	17,0	24,1	30,6	M_{nutz}	Nm	Max. usable torque
3 326	7 071	5 905	7 621	6 415	8 904	8 532	1 743	P_{nutz}	W	Max. usable power output
								NO-LOAD (I and M = 0) <u>0</u>		
2 120	4 505	7 825	5 524	3 612	5 217	3 652	689	n_0	min ⁻¹	No-load speed
								TECHNICAL FEATURES		
6	6	6	6	6	6	6	6	2p	-	Number of poles
2,09	0,095	0,095	0,185	0,406	0,145	0,303	8,72	R_{U-V}	Ω	Winding resistance between two terminals
29	1,5	1,5	3,1	7,2	2,6	5,4	152	L_{U-V}	mH	Winding inductance between two terminals
1,4	1,9	18,6	1,9	1,9	2,4	2,4	2,4	J	kg.m ² /1000	Moment of inertia
17,5	21	21	21	21	27	27	27	m	kg	Mass
317	265	196	265	265	265	265	317	F_A	N	Axial load
1 100	1 005	792	1 005	1 005	1 042	1 042	1 199	F_R	N	Radial load
1 000	1 500	3 000	1 500	1 500	1 500	1 500	1 000	n_{mitt}	min ⁻¹	Average speed
								MECHANICAL VALUES OF THE MOTOR		
0,18	0,23	0,23	0,23	0,23	0,28	0,28	0,28	M_r	Nm	Static friction torque
4,6	6,4	6,4	6,4	6,4	8,3	8,3	8,3	k_D	Nm.min.10 ⁻⁵	Damping constant
0,71	0,48	4,81	0,52	0,51	0,52	0,48	0,45	T_m	ms	Mechanical time constant
								THERMAL VALUES OF THE MOTOR		
0,34	0,30	0,28	0,29	0,33	0,25	0,25	0,30	$R_{th(RU)}$	K/W	Thermal resistance (winding-ambient)
0,26	0,23	0,22	0,22	0,25	0,19	0,19	0,23	$R_{th(GU)}$	K/W	Thermal resistance (frame-ambient)
47,3	51,0	51,0	51,0	51,0	60,7	60,7	60,7	T_{th}	min	Thermal time constant
								COOLER		
-	-	-	-	-	-	-	-	Q_W	dm ³ .min ⁻¹	Water flow rate
-	-	-	-	-	-	-	-	p_N	kPa	Pressure drop of water
-	-	-	-	-	-	-	-	Q_L	dm ³ .s ⁻¹	Air flow rate

AM 71 Momentkennlinien / Torque speed curves



Momentkennlinien / Torque speed curves **AM 71**

