



Brushless Servomotors

H5-xxxx series

U_{dc} = 320 / 560 VDC

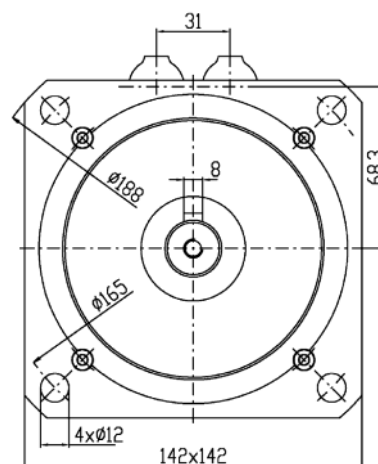
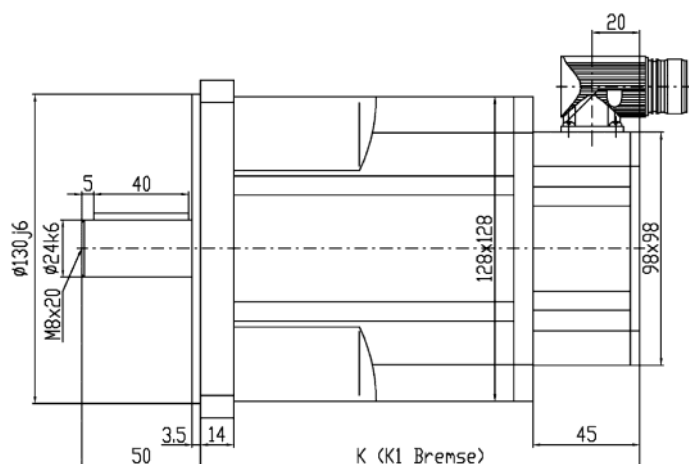


General Description:

Rare Earth Magnets
Resolver Feedback
Intercontec-Connectors
Concentrated Winding /High Torque Density

Options:

Holding Brake
Shaft Keyway DIN 6885
Encoder Feedback
Flying Leads



Parameters			H5-1160		H5-1490		H5-1870		H5-2730	
DC Bus Voltage	U _{dc}	V	320	560	320	560	320	560	320	560
Rated Torque	M _N	Nm	8,4		10,9		14,3		21	
Rated AC Current	I _N	A	13,2	7,9	15,6	9,6	22,4	13,1	25,4	14,9
Stall Torque	M ₀	Nm	11,6		14,9		18,7		27,3	
Stall Current	I ₀	A	17,3	10,3	20,2	12,5	27,9	16,4	32,4	19,0
Peak Torque	M _{max}	Nm	32		41		51		75	
Peak AC Current	I _{max}	A	82	49	80	49	105	61	116	68
Rated Speed*	n _N	min ⁻¹	3000							
Max. Mech. Speed	n _{max}	min ⁻¹	9000							
Torque Constant	K _T	Nm/A	0,67	1,12	0,74	1,19	0,67	1,14	0,84	1,44
Voltage Constant	K _E	V/1000	40,5	68	44,5	72	40,5	69	51,0	87
Resistance Ph-Ph	R _{Ph}	Ω	0,25	0,71	0,19	0,48	0,12	0,35	0,12	0,32
Inductance Ph-Ph	L _{Ph}	mH	4,0	11,4	3,2	8,5	2,2	6,4	2,3	6,8
El. Time Constant	T _{el}	ms	16,0	16,1	16,8	17,7	18,3	18,3	19,2	21,0
Therm. Constant	T _{th}	min	50		55		60		75	
Inertia	J	kgcm ²	6,8		8,3		11,0		15,3	
Rated Brake Torque	M _{Br}	Nm	18							
Weight w/o Brake	m	kg	8,1		10,1		12,1		16,1	
Weight with Brake	m _{Br}	kg	9,2		11,2		13,2		17,2	
Length w/o Brake	K	mm	172		200		230		290	
Length with Brake	K1	mm	224		252		282		342	

* Windings for different rated speeds are available; parameter tolerance +/-10%

Protection Class
Electrical Connections
Thermal Protection
Rated Parameters
Motor Controller
Flange/Shaft

IP64, optional IP65 or IP67
Intercontec-Connectors (2 pcs)
PTC, optional thermal switch (normally closed type) tripping out at 140°C, KTY or NTC
Acc. to EN 60034-1, ambient temperature T_A = 40°C, cooling flange 65°C, temperature rise T_R = 110 K
Standard winding designed for power supply U_{cc} = 320 or 560 VDC, different execution optional
Acc. to DIN 42955 N, optional R