Brushless Servomotors
N5-xxxx Series

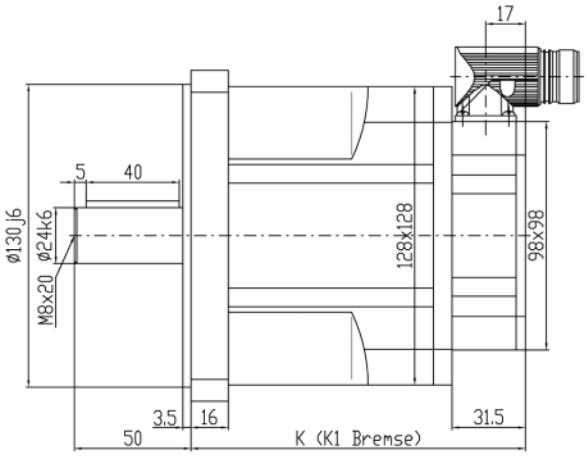
Udc = 320 / 560 VDC

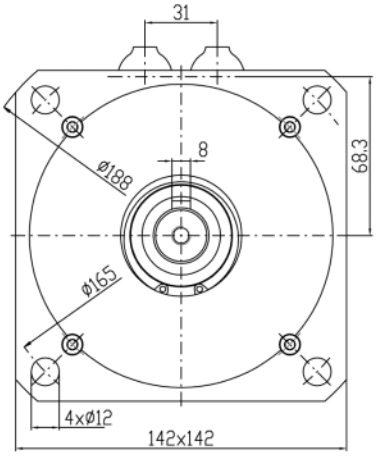
General Description:

Compact Design
Rare Earth Magnets
Resolver Feedback
Intercontec-Connectors

Options:

Holding Brake, different Encoders, Shaft Keyway DIN 6885, UL, ATEX, spec.Shaft / Flangue / Housing, Gearbox, Flying Leads, etc...





Parameters			N5-1200		N5-1600		N5-2000		N5-2400	
DC Bus Voltage	U_{dc}	V	320	560	320	560	320	560	320	560
Rated Torque	M_N	Nm	10,5		13,8		17,5	16	22	20
Rated AC Current	I_N	A	14,7	8,3	17,0	9,9	16,4	11,5	16,4	14,1
Stall Torque	M_0	Nm	12		16		20		24	
Stall Current	I_0	A	14,2	8,0	17,3	10,1	16,1	11,6	15,4	13,8
Peak Torque	M_{max}	Nm	36		48		60		72	
Peak AC Current	I_{max}	A	53	29	61	36	55	40	53	47
Rated Speed*	n_N	min^{-1}	3000		3000	3000	2000	3000	2000	3000
Max. Mech. Speed	n_{max}	min^{-1}	9000							
Torque Constant	K_T	Nm/A	0,84	1,51	0,93	1,59	1,24	1,72	1,55	1,74
Voltage Constant	K_E	V/1000	51	91	56	96	75	104	94	105
Resistance Ph-Ph	R_{Ph}	Ω	0,42	1,33	0,30	0,88	0,37	0,72	0,45	0,56
Inductance Ph-Ph	L_{Ph}	mH	3,4	10,9	2,5	7,5	3,3	6,3	4,1	4,9
El. Time Constant	T_{el}	ms	8,1	8,2	8,4	8,5	8,8	8,8	9,0	8,8
Therm. Constant	T_{th}	min	45		55		65		75	
Inertia	J	$kgcm^2$	7,9		11,5		15,1		18,7	
Rated Brake Torque	M_{Br}	Nm	18							
Weight w/o brake	m	kg	7,5		9,5		11,5		13,5	
Weight with brake	m_{Br}	kg	8,6		10,6		12,6		14,6	
Length w/o brake	K	mm	145		175		205		235	
Length with brake	K1	mm	281		211		241		271	

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

Protection Class	IP64, optional IP65 or IP67
Electrical Connections	Intercontec-Connectors (2 pcs)
Thermal Protection	PTC, optional thermal switch (normally closed type) tripping out at 140°C, KTY or NTC
Rated Parameters	Acc. to EN 60034-1, $T_{Ambient}$ = 40°C, T_{Rise} = 110 K, Flange Temperature ≤ 65C°
Motor Controller	Standard winding designed for power supply U_{cc} = 320 or 560 VDC, different execution optional
Flange/Shaft	Acc. To DIN 42955N, optional R