



Brushless Servomotors

H4-xxxx series

U_{dc} = 320 / 560 VDC

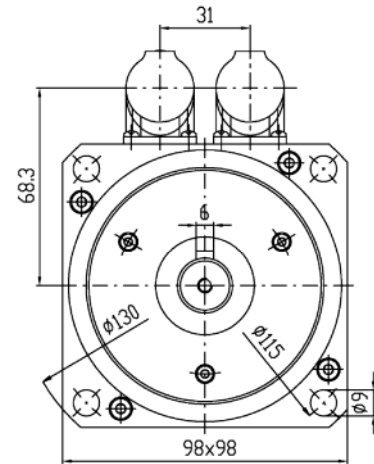
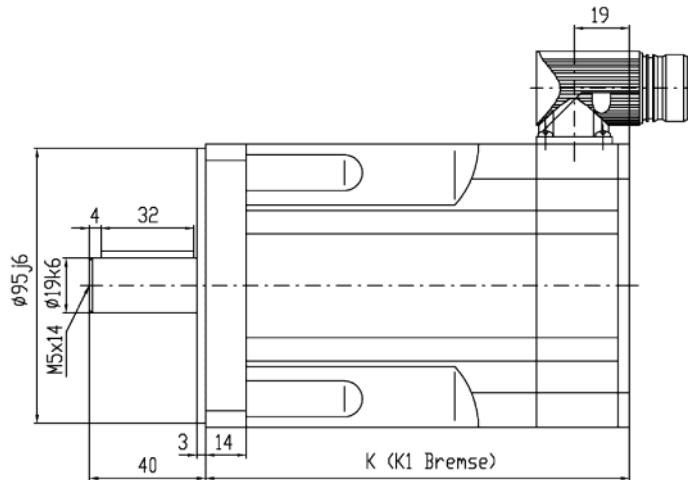


General Description:

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

Options:

Holding Brake
Shaft Keyway DIN 6885
Encoder Feedback
Flying Leads



Parameters			H4-0410		H4-0630		H4-0860	
DC Bus Voltage	U _{dc}	V	320	560	320	560	320	560
Rated Torque	M _N	Nm	3,2		4,6		6,1	
Rated AC Current	I _N	A	5,0	2,8	7,0	3,65	8,3	4,75
Stall Torque	M ₀	Nm	4,1		6,3		8,6	
Stall Current	I ₀	A	6,0	3,4	9,2	4,75	11,2	6,4
Peak Torque	M _{max}	Nm	11,1		18,5		27,3	
Peak AC Current	I _{max}	A	24,0	13,6	40,0	21,0	53	31
Rated Speed*	n _N	min ⁻¹	3000					
Max. Mech. Speed	n _{max}	min ⁻¹	9000					
Torque Constant	K _T	Nm/A	0,67	1,19	0,69	1,32	0,77	1,34
Voltage Constant	K _E	V/1000	40,5	72	41,5	80	46,5	81
Resistance Ph-Ph	R _{Ph}	Ω	1,24	4,00	0,70	2,70	0,59	1,81
Inductance Ph-Ph	L _{Ph}	mH	10,6	34,0	6,9	25,5	6,2	18,6
El. Time Constant	T _{el}	ms	8,5	8,5	9,9	9,5	10,5	10,3
Therm. Constant	T _{th}	min	29		31		33	
Inertia	J	kgcm ²	1,7		2,6		3,5	
Rated Brake Torque	M _{Br}	Nm	9,0					
Weight w/o Brake	m	kg	4,3		5,3		7,0	
Weight with Brake	m _{Br}	kg	5,1		6,1		7,8	
Length w/o Brake	K	mm	129		159		189	
Length with Brake	K1	mm	170		200		230	

* 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, ambient temperature T _A = 40°C, cooling flange 65°C, temperature rise T _R = 110 K
Motor Controller	Standard winding designed for power supply U _{cc} = 320 or 560 VDC, different execution optional
Flange/Shaft	Acc. to DIN 42955 N, optional R