Brushless Servomotors

TC6-xxxx series

Udc = 320 / 560 VDC

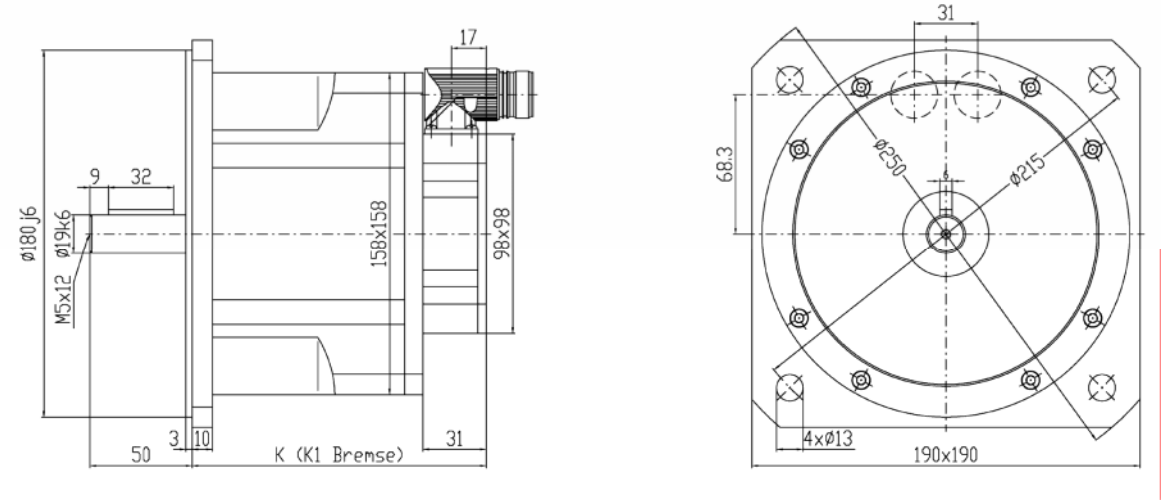
brandlabel motors & powerstages

General Description:

Compact design
Rare earth magnets
Resolver feed-back
Intercontec-connectors

Options:

Holding brake
Shaft keyway DIN 6885
Encoder feed-back
Flying Leads



Parameters			TC6-0350		TC6-0700	
DC Bus Voltage	U_{dc}	V	320	560	320	560
Rated Torque	M_N	Nm	3,0		6,0	
Rated AC Current	I_N	A	5,3	3,1	9,3	5,1
Stall Torque	M_0	Nm	3,5		7,0	
Stall Current	I_0	A	5,3	3,1	9,8	5,4
Peak Torque	M_{max}	Nm	10,5		21	
Peak AC Current	I_{max}	A	22	13,2	42	23
Rated Speed*	n_N	min^{-1}	3000			
Max. Mech. Speed	n_{max}	min^{-1}	6000			
Torque Constant	K_T	Nm/A	0,66	1,12	0,71	1,29
Voltage Constant	K_E	V/1000	40	68	43	78
Resistance Ph-Ph	R_{Ph}	Ω	1,93	5,6	0,71	2,3
Inductance Ph-Ph	L_{Ph}	mH	8,5	24,5	4,9	16,2
El. Time Constant	T_{el}	ms	4,4	4,4	6,9	6,9
Therm. Constant	T_{th}	min	36		40	
Inertia	J	$kgcm^2$	4,7		7,8	
Rated Brake Torque	M_{Br}	Nm	9,0			
Weight w/o brake	m	kg	7,5		9,7	
Weight with brake	m_{Br}	kg	9,2		11,4	
Length w/o brake	K	mm	127		144	
Length with brake	K1	mm	170		187	

* 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