



# Brushless Servomotors

## H2-xxxx series

U<sub>dc</sub> = 320 / 560 VDC

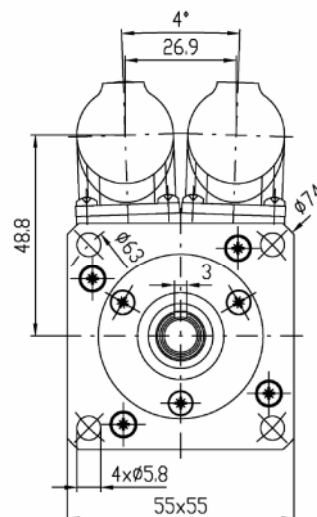
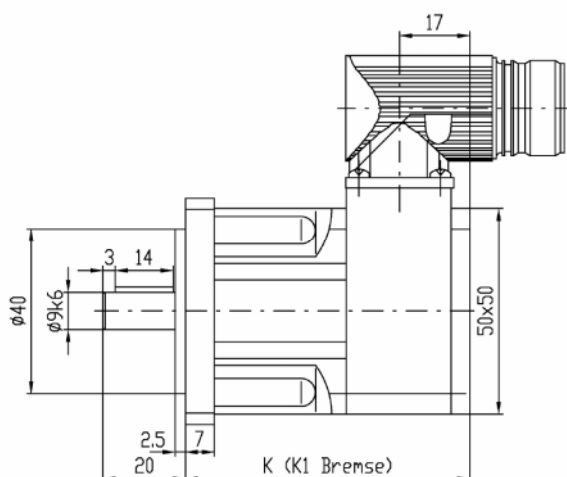


### General Description:

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

### Options:

Holding Brake  
Shaft Keyway DIN 6885  
Encoder Feedback  
Flying Leads



Parameters			H2-0026		H2-0053		H2-0074		H2-0095	
DC Bus Voltage	U <sub>dc</sub>	V	320	560	320	560	320	560	320	560
Rated Torque	M <sub>N</sub>	Nm	0,24		0,45		0,67		0,84	
Rated AC Current	I <sub>N</sub>	A	0,68	0,68	1,11	0,65	1,55	0,89	1,90	1,19
Stall Torque	M <sub>0</sub>	Nm	0,26		0,53		0,74		0,95	
Stall Current	I <sub>0</sub>	A	0,70	0,70	1,26	0,73	1,66	0,95	2,09	1,31
Peak Torque	M <sub>max</sub>	Nm	1,0		2,0		2,8		3,6	
Peak AC Current	I <sub>max</sub>	A	2,9	2,9	5,1	3,0	6,7	3,9	8,5	5,3
Rated Speed*	n <sub>N</sub>	min <sup>-1</sup>	4500							
Max. Mech. Speed	n <sub>max</sub>	min <sup>-1</sup>	12000							
Torque Constant	K <sub>T</sub>	Nm/A	0,37	0,37	0,42	0,73	0,45	0,78	0,45	0,73
Voltage Constant	K <sub>E</sub>	V/1000	21,0	21,0	25,5	44,0	27,0	47,0	27,0	44,0
Resistance Ph-Ph	R <sub>Ph</sub>	Ω	36,8	36,8	17,4	54,0	12,1	37,9	8,4	21,6
Inductance Ph-Ph	L <sub>Ph</sub>	mH	62,0	62,0	34,1	104	22,8	70,0	19,4	49,1
El. Time Constant	T <sub>el</sub>	ms	1,69	1,69	1,96	1,92	1,89	1,84	2,31	2,28
Therm. Constant	T <sub>th</sub>	min	13		15		20		22	
Inertia	J	kgcm <sup>2</sup>	0,06		0,08		0,10		0,12	
Rated Brake Torque	M <sub>Br</sub>	Nm	2,0							
Weight w/o Brake	m	kg	0,75		0,92		1,09		1,26	
Weight with Brake	m <sub>Br</sub>	kg	1,19		1,36		1,53		1,70	
Length w/o Brake	K	mm	67		82		97		112	
Length with Brake	K1	mm	105		120		135		150	

\* 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 <sub>A</sub> = 40°C, cooling flange 65°C, temperature rise T <sub>R</sub> = 110 K
Motor Controller	Standard winding designed for power supply U <sub>cc</sub> = 320 or 560 VDC, different execution optional
Flange/Shaft	Acc. to DIN 42955 N, optional R