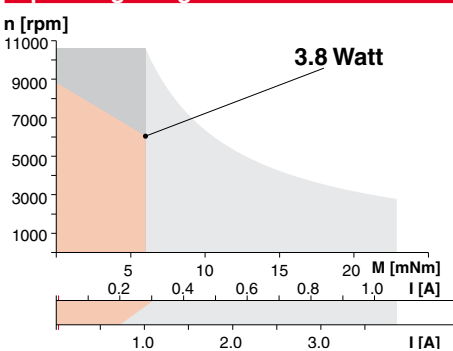


Motor Data: **Order Number**

		2522. ... -12.112-000 (Insert winding number)											
		Winding number											
		930	931	932	933	934	935	936	937	938	939	940	941
1	Assigned power rating	W	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2	Nominal voltage	Volt	5.0	6.0	7.2	9.0	9.0	12.0	12.0	15.0	18.0	24.0	30.0
3	No load speed	rpm	8190	8930	8140	8940	7970	9600	8370	8470	8190	8840	8330
4	Stall torque	mNm	17.1	18.7	18.3	20.5	18.2	21.4	18.6	18.6	18.0	19.1	17.7
5	Speed/torque gradient	rpm/mNm	484	483	448	440	442	453	452	459	460	466	475
6	No load current	mA	25	24	17	16	13	13	11	9	7	6	4
7	Starting current	mA	2950	2930	2180	2150	1700	1800	1370	1110	863	742	518
8	Terminal resistance	Ohm	1.69	2.04	3.30	4.19	5.29	6.66	8.75	13.5	20.9	32.3	57.9
9	Max. permissible speed	rpm	10600	10600	10600	10600	10600	10600	10600	10600	10600	10600	10600
10	Max. continuous current	mA	720	720	720	682	607	541	472	379	305	245	183
11	Max. continuous torque	mNm	4.16	4.58	6.04	6.51	6.49	6.41	6.36	6.36	6.31	6.25	6.12
12	Max. power output at nominal voltage	mW	3640	4350	3890	4780	3790	5350	4070	4120	3840	4410	3840
13	Max. efficiency	%	83	83	83	84	84	84	83	83	83	83	83
14	Torque constant	mNm/A	5.78	6.36	8.38	9.54	10.7	11.9	13.6	16.8	20.8	25.7	34.1
15	Speed constant	rpm/V	1650	1500	1140	1000	893	806	703	569	459	371	280
16	Mechanical time constant	ms	18	18	18	18	18	18	18	18	18	18	18
17	Rotor inertia	gcm ²	3.65	3.64	3.87	3.93	3.90	3.81	3.80	3.74	3.73	3.68	3.61
18	Terminal inductance	mH	0.12	0.14	0.24	0.32	0.40	0.49	0.64	0.97	1.50	2.29	4.02
19	Thermal resistance housing-ambient	K/W	18	18	18	18	18	18	18	18	18	18	18
20	Thermal resistance rotor-housing	K/W	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
21	Thermal time constant winding	s	11	11	11	12	11	11	11	11	11	11	10

Operating Range **Comments** [Details on page 36](#)



Recommended operating range
 Continuous operation
 In observation of above listed thermal resistances (lines 19 and 20) the maximum permissible rotor temperature will be reached during continuous operation at 25°C ambient. = Thermal limit.
 Short term operation
 The motor may be briefly overloaded (recurring).

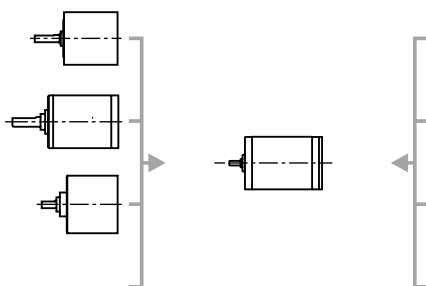
938 Motor with high resistance winding
 930 Motor with low resistance winding

- Stock program
- Standard program
- Special program (on request!)

- Axial play 0.1 - 0.2 mm
- Max. sleeve bearing loads
 axial (dynamic) 1.0 N
 radial (5 mm from flange) 2.8 N
 Press-fit force (static) 80 N
- Radial play sleeve bearings 0.012 mm
- Ambient temperature range -20/+65°C
- Max. rotor temperature +85°C
- Number of commutator segments 9
- Weight of motor 54 g
- Values listed in the table are nominal. For applicable tolerances (see page 33) and additional details please request our computer printout.
- CLL = Capacitor Long Life

maxon Modular System

- Planetary Gearhead
 Ø22 mm
 0.1-0.3 Nm
 Details page 153
- Planetary Gearhead
 Ø22 mm
 0.5-1.0 Nm
 Details page 154
- Spur Gearhead
 Ø24 mm
 0.1 Nm
 Details page 156



- Options: Pigtailed in place of solder terminals.