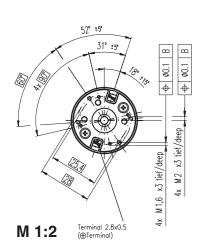
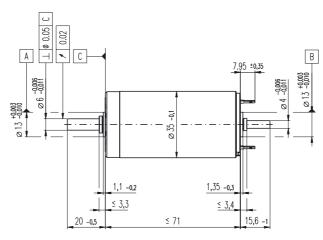
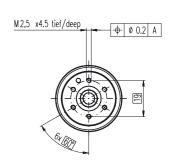
RE 35 Ø35 mm, Graphite Brushes, 90 Watt

new with lever brushes







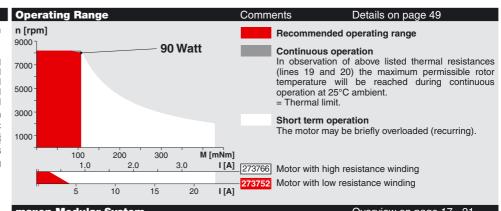
Stock program
Standard program
Special program (on request!)

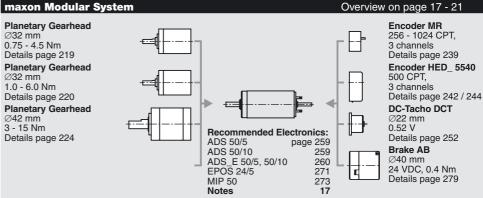
according to dimensional drawing					273754						273760		273762	273763		273765	
Shaft length 15.6 shortened to 4 mm			285785	285786	285787	285788	285789	285790	285791	285792	285793	285794	285795	285796	285797	285798	285799
Motor Data (provisional)																	
1	Assigned power rating	W	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
2	Nominal voltage	Volt	15.0	30.0	42.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
3	No load speed	rpm	7070	7220	7530	7270	6650	5970	4750	3810	3140	2570	2100	1620	1290	1060	856
	Stall torque	mNm	872	949	1070	966	878	766	613	493	394	320	253	194	155	125	99.5
5	Speed / torque gradient	rpm / mNm	8.45	7.77	7.17	7.63	7.68	7.89	7.86	7.84	8.09	8.19	8.47	8.55	8.54	8.80	8.94
6	No load current	mA	245	124	93	77	69	60	45	34	27	22	17	13	10	8	7
7	Starting current	Α	44.9	24.4	20.3	15.5	12.9	10.1	6.43	4.16	2.74	1.83	1.18	0.704	0.448	0.298	0.193
8	Terminal resistance	Ohm	0.334	1.23	2.07	3.09	3.72	4.75	7.46	11.5	17.5	26.2	40.5	68.2	107	161	248
9	Max. permissible speed	rpm	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200	8200
10	Max. continuous current	Α	4.00	2.74	2.15	1.78	1.63	1.45	1.17	0.944	0.768	0.630	0.508	0.392	0.313	0.256	0.206
11	Max. continuous torque	mNm	77.7	107	113	111	111	110	111	112	111	110	109	108	108	107	106
12	Max. power output at nominal voltage	W	152	175	206	181	150	118	75.0	48.4	31.8	21.2	13.7	8.07	5.10	3.36	2.15
13	Max. efficiency	%	81	84	86	85	85	84	83	82	80	79	77	74	72	69	66
14	Torque constant	mNm / A	19.4	38.9	52.5	62.2	68.0	75.8	95.2	119	144	175	214	276	346	418	515
15	Speed constant	rpm / V	491	246	182	154	140	126	100.0	80.6	66.4	54.6	44.7	34.6	27.6	22.9	18.5
16	Mechanical time constant	ms	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5
17	Rotor inertia	gcm ²	65.5	65.5	69.6	65.0	64.5	62.7	62.8	62.8	60.7	59.9	57.9	57.2	57.2	55.5	54.5
18	Terminal inductance	mH	0.09	0.34	0.62	0.87	1.04	1.29	2.04	3.16	4.65	6.89	10.30	17.10	26.90	39.30	59.70
19	Thermal resistance housing-ambient	K/W	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
20	Thermal resistance rotor-housing	K/W	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
21	Thermal time constant winding	S	27	27	29	27	27	26	26	26	25	25	24	24	24	23	23

Order Number

Sp	ecifications	
•	Axial play	0.05 - 0.15 mm
•	Max. ball bearing loads	
	axial (dynamic)	
	not preloaded	5.6 N
	preloaded	2.4 N
	radial (5 mm from flange)	28 N
	Force for press fits (static)	110 N
	(static, shaft supported)	1200 N
•	Radial play ball bearing	0.025 mm
•	Ambient temperature range	-20 +100°C
•	Max. rotor temperature	+155°C
•	Number of commutator segment	s 13
•	Weight of motor	340 g
•	2 pole permanent magnet	
•	Values listed in the table are non	ninal.

For applicable tolerances see page 43. For additional details please use the maxon selection program on the enclosed CD-ROM.





Option: Hollow shaft as special design.