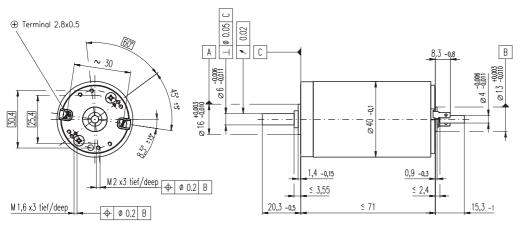
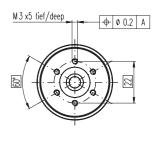
RE 40 Ø40 mm, Graphite Brushes, 150 Watt





M 1:2

Stock program **Order Number**]Standard program Special program (on request) 148866 148867 148877 218008 218009 218010 218011 218012 218013 218014 218015 **Motor Data**

		Values at nominal voltage														
	1	Nominal voltage	V	12.0	24.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0		
£	2	No load speed	rpm	6920	7580	7580	6420	5560	3330	2690	2130	1710	1420	987		
	3	No load current	mA	241	137	68.6	53.7	43.7	21.9	16.7	12.5	9.67	7.77	5.16		
	4	Nominal speed	rpm	6370	6930	7000	5810	4920	2700	2050	1500	1080	774	339		
	5	Nominal torque (max. continuous torque)	mNm	94.9	170	184	183	177	187	187	189	189	188	188		
	6	Nominal current (max. continuous current)) A	6.00	5.77	3.12	2.62	2.20	1.38	1.12	0.898	0.721	0.593	0.413		
	7	Stall torque	mNm	1680	2280	2500	1990	1580	995	796	641	512	415	289		
	8	Starting current	Α	102	75.7	41.4	28.0	19.2	7.26	4.68	3.00	1.92	1.29	0.627		
	9	Max. efficiency	%	88	91	92	91	91	89	88	87	86	85	83		
		Characteristics														
1:	10	Terminal resistance	Ω	0.117	0.317	1.16	1.72	2.50	6.61	10.2	16.0	24.9	37.1	76.6		
	11	Terminal inductance	mH	0.0245	0.0823	0.329	0.460	0.612	1.70	2.62	4.14	6.40	9.31	19.2		
	12	Torque constant	mNm / A	16.4	30.2	60.3	71.3	82.2	137	170	214	266	321	461		
	13	Speed constant	rpm / V	581	317	158	134	116	69.7	56.2	44.7	35.9	29.8	20.7		
	14	Speed / torque gradient rpr	m/mNm	4.15	3.33	3.04	3.23	3.53	3.36	3.39	3.35	3.37	3.44	3.45		
	15	Mechanical time constant	ms	6.03	4.81	4.39	4.36	4.35	4.31	4.31	4.31	4.31	4.32	4.33		
1	16	Rotor inertia	gcm ²	139	138	138	129	118	123	121	123	122	120	120		

Specifications

Thermal data

4 65 K / W Thermal resistance housing-ambient Thermal resistance winding-housing 1.93 K / W Thermal time constant winding 41.6 s

Thermal time constant motor 1120 s ... +100°C Ambient temperature 22 Max. permissible winding temperature +155°C

Mechanical data (ball bearings)

Max. permissible speed 12000 rpm Axial play 0.05 - 0.15 mm Radial play 0.025 mm 26 Max. axial load (dynamic) 5.6 N Max. force for press fits (static) 110 N (static, shaft supported) 1200 N Max. radial loading, 5 mm from flange 28 N

Other specifications

Number of pole pairs Number of commutator segments 30

Weight of motor

Values listed in the table are nominal. Explanation of the figures on page 49.

Option

Preloaded ball bearings

Operating Range Comments n [rpm] Continuous operation In observation of above listed thermal resistance 150 W (lines 17 and 18) the maximum permissible winding 12000 148877 temperature will be reached during continuous operation at 25°C ambient. = Thermal limit. 8000 Short term operation 4000 The motor may be briefly overloaded (recurring). 50 100 150 M [mNm] Assigned power rating 20 3.0 4.0 LIAI

