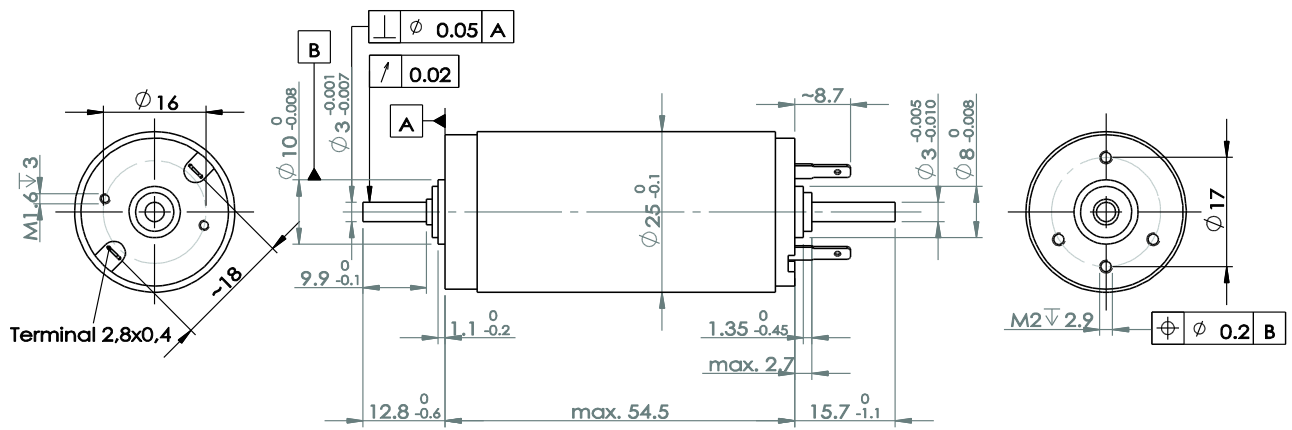
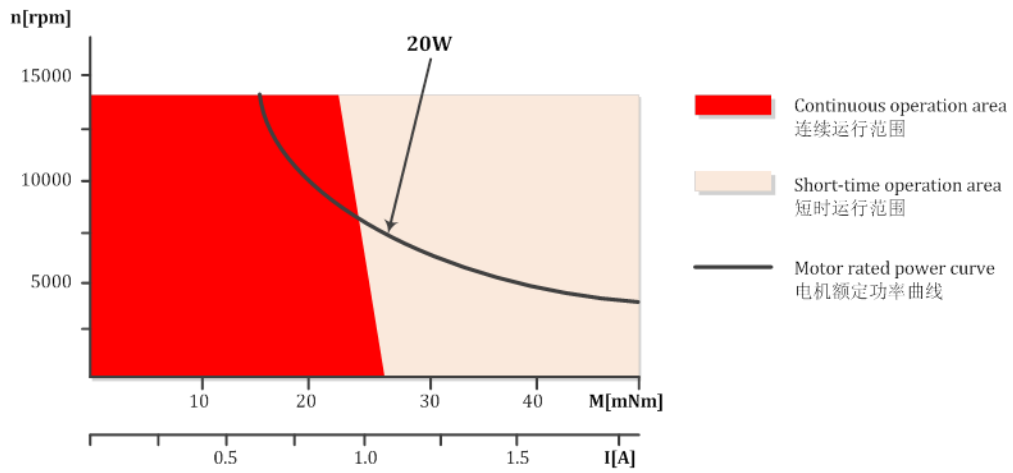


R 25 Ø25 graphite brush 20W 石墨电刷 20W

				Order number 订货号			
				100255	100256	100257	100258
Motor parameters							
1	Nominal voltage 额定电压	U_N	V	18	24	48	48
2	Terminal resistance 电阻	R	Ω	1.33	2.32	7.96	33.4
3	Output power 输出功率	P_{2max}	W	23	25	28	12
4	Efficiency 最大效率	η_{max}	%	84	86	87	84
5	No-load speed 空载转速	n_0	rpm	10200	9560	10300	5050
6	No-load current 空载电流	I_0	A	0.089	0.055	0.027	0.01
7	Stall torque 堵转转矩	M_H	mNm	220	243	264	129
8	Friction torque 摩擦转矩	M_F	mNm	0.5	0.5	0.5	0.5
9	Speed constant 速度常数	k_n	rpm/V	570	400	216	106
10	Back-EMF constant 反电动势常数	k_E	mV/rpm	1.75	2.50	4.64	9.44
11	Torque constant 转矩常数	k_M	mNm/A	16.74	23.85	44.30	90.13
12	Current constant 电流常数	k_I	A/mNm	0.060	0.042	0.023	0.011
13	Slope of n-M curve 转速-转矩曲线斜率	$\Delta n/\Delta M$	rpm/mNm	45.32	38.96	38.73	39.26
14	Mechanical time constant 机械时间常数	τ_m	ms	4.77	4.55	4.37	4.35
15	Rotor inertia 转子惯量	J	gcm ²	9.49	10.8	10.5	10.5
16	Angular acceleration 最大角加速度	α_{max}	10 ³ rad/s ²	231	225	251	122
17	Thermal resistance 热阻	R_{th1} / R_{th2}	K/W	3.1 / 14			
18	Thermal time constant 热时间常数	τ_{w1} / τ_{w2}	s	12.5 / 612			
19	Operating temperature range 工作温度范围		°C	-30 ... +85			
20	Shaft bearings 轴承			Ball bearing			
21	Shaft load max 轴载荷						
	- radial at 3,000rpm (3mm from bearing)		N	20			
	- axial at 3,000rpm (axial push-on only)		N	2			
	- axial at standstill (axial push-on only)		N	20			
22	Shaft play 轴间隙						
	- radial 径向	<=	mm	0.025			
	- axial 轴向	<=	mm	0.15			
23	Magnet material 永磁材料			Sintered Nd-Fe-B			
24	Housing material 外壳材料			Steel, black coated			
25	Pole pairs 极对数		p	1			
26	Weight 重量		g	130			
27	Direction of rotation 旋转方向			Clockwise, viewed from the front face			
Operating Data for η_{max} of Customer's Specifications							
28	Output power 输出功率	P_{2opt}	W	21	23	27	12
29	Efficiency 效率	η_{opt}	%	79	81	83	72
30	Speed 转速	n_{opt}	rpm	8850	8330	9160	3830
31	Load current 电流	I_{opt}	A	1.49	1.18	0.66	0.35
32	Operating torque 转矩	M_{opt}	mNm	22.9	26.3	27.7	30.0

Recommended areas for continuous operation



Dimension 尺寸图