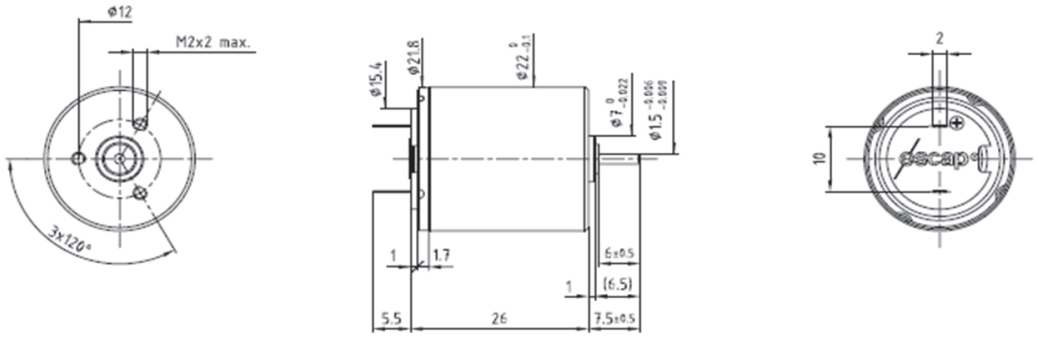
22S28

Precious metal commutation | Ø22mm | 4.1 mNm

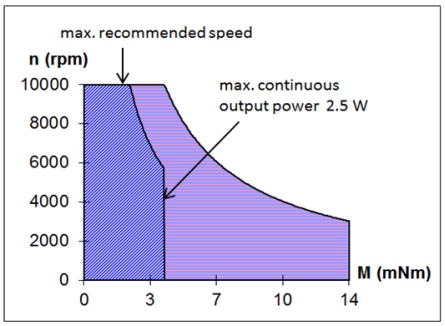


Dimensions in mm

22S28 **** .1

Electrical Data	****	208E	205E	
1 Nominal Voltage	V	15	24	Volt
2 No-Load Speed	n_0	9,600	7,940	rpm
3 No-Load Current	I_0	6.0	2.8	mA
4 Terminal Resistance	R	35.0	140.0	Ω
5 Output Power	$P_{2max.}$	2.5	2.4	W
6 Stall Torque	mNm	6.3 (0.9)	4.9 (0.7)	mNm (oz-in)
7 Efficiency	$h_{max.}$	78	76	%
8 Max Continuous Speed	$n_{e\ max.}$	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e\ max.}$	4.1 (0.56)	3.9 (0.56)	mNm (oz-in)
10 Max Continuous Current	$I_{e\ max.}$	0.29	0.15	A
11 Back-EMF Constant	k_E	1.54	2.97	mV/rpm
12 Torque Constant	k_M	14.70	28.40	mNm/A
13 Motor Regulation	R/k^2	160.0	170.0	10^3/Nms
14 Friction Torque	T_F	0.09 (0.02)	0.08 (0.02)	mNm (oz-in)
15 Rotor Inductance	L	0.92	3.60	mH
16 Mechanical Time Constant	t_m	25.6	25.5	ms
17 Rotor Inertia	J	1.60	1.50	$g.cm^2$
General Data				
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}	5/30		°C/W
19 Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}	5/480		S
20 Operating Temperature Range:	motor	-30°C to 85°C (-22°F to 185°F)		°C (°F)
	rotor	100°C (212°F)		°C (°F)
21 Shaft Load Max.:		With sleeve bearings		
(5mm from bearing)	-radial	1.5 (5.4)		N (oz)
	-axial	100 (359.6)		N (oz)
22 Shaft Play:	-radial	<0.03 (0.0012)		mm (inch)
	-axial	0.15 (0.0059)		mm (inch)
23 Weight	g	49 (1.73)		g (oz)

Execution Table		
Gearbox	Single Shaft	MR2
R22	Upon Request	Upon Request
M22	Upon Request	Upon Request
K24	Upon Request	Upon Request
K27	Upon Request	Upon Request



Continuous working range
Temporary working range

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