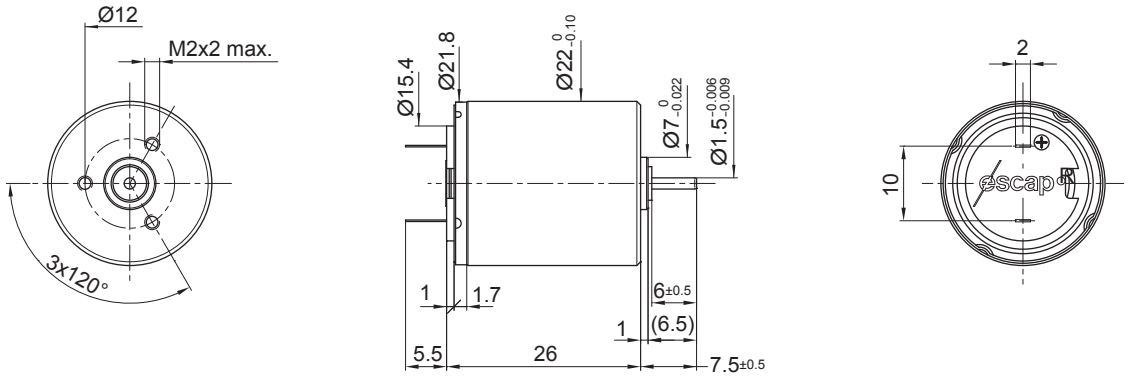
Portescap
A REGAL REXNORD BRAND

22S28

Ø 22 mm • Precious metal commutation • 4.1 mNm



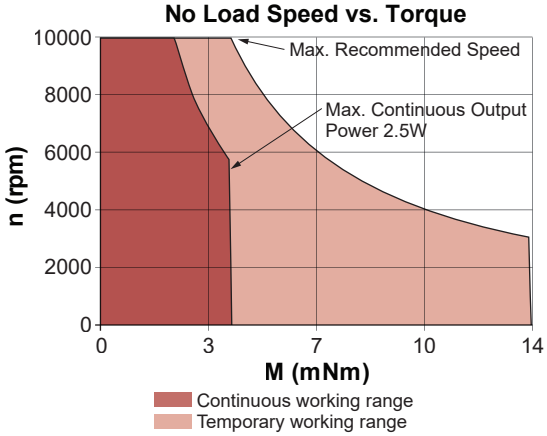
Dimensions in inches [mm]

Electrical Data	Symbol	22S28 •••• .1 208E	22S28 •••• .1 205E	Unit
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	τ_m	25.6	25.5	ms
17 Rotor Inertia	J	1.60	1.50	g-cm²
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 rotor	-30°C to 85°C (-22°F to 185°F) 100°C (212°F)		°C (°F) °C (°F)
21 Shaft Load Max.: (5 mm from bearing)	 -radial -axial	With sleeve bearings 1.5 (5.4) 100 (359.6)		 N (oz) N (oz)
22 Shaft Play:	-radial -axial	<0.03 (0.0012) 0.15 (0.0059)		mm (inch) mm (inch)
23 Weight	g	49 (1.73)		g (oz)
24 Commutation Segment	-	9		segment

Execution Table

Gearbox	Single Shaft	MR2
R22	Upon Request	Upon Request
K24	Upon Request	Upon Request
K27	Upon Request	Upon Request

No Load Speed vs. Torque



▶ Motor shaft rotates CW when seen from motor front face when +ve and -ve supply is given to respective terminals.