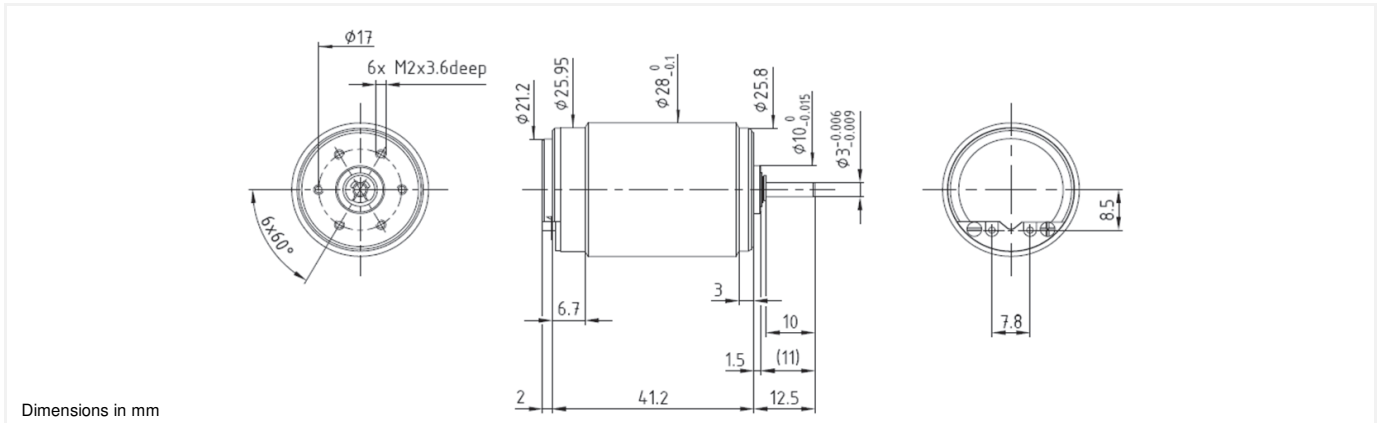


28LT12

Graphite-Copper commutation

Ø28mm

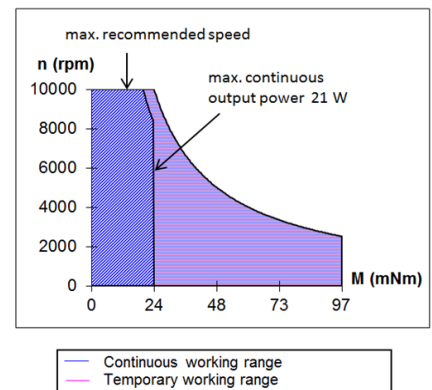
24 mNm



28LT12 **** .49

Electrical Data	****	219	416E	
1 Nominal Voltage	V	18	32	Volt
2 No-Load Speed	n_0	7,860	7,345	rpm
3 No-Load Current	I_0	65.0	35.0	mA
4 Terminal Resistance	R	6.2	19.9	Ω
5 Output Power	$P_{2max.}$	19.0	20.0	W
6 Stall Torque	mNm	63 (8.93)	65 (9.21)	mNm (oz-in)
7 Efficiency	$\eta_{max.}$	72	73	%
8 Max Continuous Speed	$n_{e max.}$	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e max.}$	23 (3.4)	24 (3.4)	mNm (oz-in)
10 Max Continuous Current	$I_{e max.}$	1.13	0.63	A
11 Back-EMF Constant	k_E	2.24	4.26	mV/rpm
12 Torque Constant	k_M	21.40	40.70	mNm/A
13 Motor Regulation	R/k^2	13.0	12.0	$10^3/Nms$
14 Friction Torque	T_F	1.39 (0.2)	1.42 (0.21)	mNm (oz-in)
15 Rotor Inductance	L	0.50	2.40	mH
16 Mechanical Time Constant	t_m	13.9	21.4	ms
17 Rotor Inertia	J	10.70	17.80	g.cm ²
General Data				
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}	5 / 12		$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}	27/760		S
20 Operating Temperature Range:	motor	-30 $^{\circ}C$ to 85 $^{\circ}C$ (-22 $^{\circ}F$ to 185 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
	rotor	100 $^{\circ}C$ (212 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
21 Shaft Load Max.: (5mm from bearing)		With sleeve bearings		
	-radial	6.0 (21.6)		N (oz)
	-axial	250 (899.2)		N (oz)
22 Shaft Play:	-radial	<0.018 (0.0007)		mm (inch)
	-axial	0.15 (0.0059)		mm (inch)
23 Weight	g	135 (4.77)		g (oz)

Execution Table		
Gearbox	Single Shaft	Double Shaft for E9
R22	164	319
M22	164	-
R32	49	316



V121616