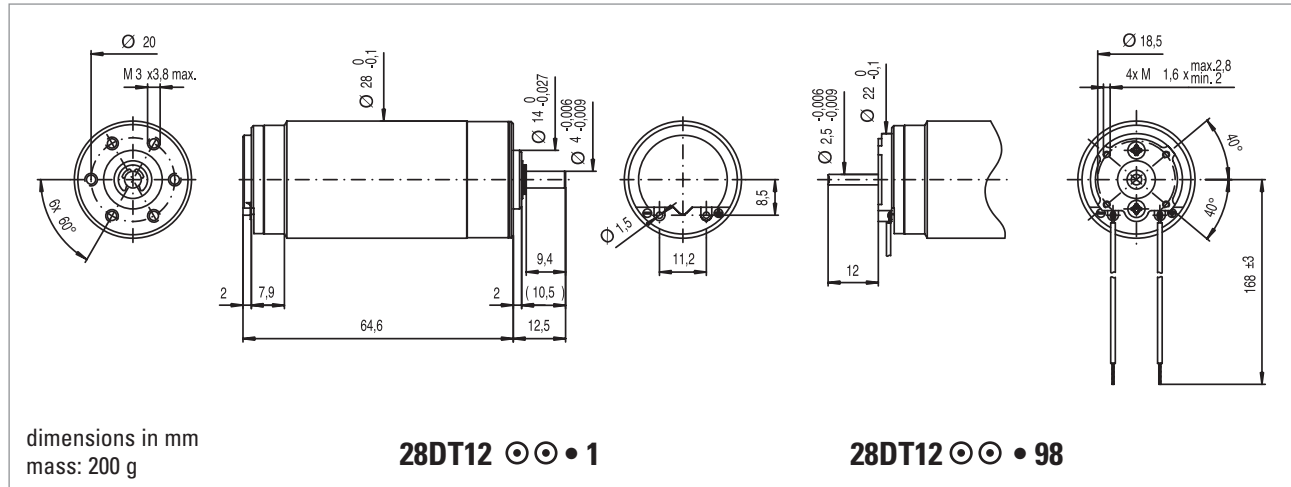


37 Watt

Graphite/Copper Commutation System - 13 Segments



Winding Type	☉☉	-222P	-219P	-222E	-219E
<b>Measured Values</b>					
Measuring voltage	V	12	15	24	28
No-load speed	rpm	6800	7100	6800	6900
Stall torque	mNm (oz-in)	102 (14.4)	101 (14.3)	126 (17.8)	107 (15.1)
Average No-load current	mA	210	180	110	90
Typical starting voltage	V	--	--	--	--
<b>Max. Recommended Values</b>					
Max. continuous current	A	2.5	2	1.4	1.1
Max. continuous torque	mNm (oz-in)	37 (5.2)	35 (5.0)	41 (5.8)	37 (5.2)
Max. angular acceleration	10 <sup>3</sup> rad/s <sup>2</sup>	91	98	102	104
<b>Intrinsic Parameters</b>					
Back-EMF constant	V/1000 rpm	1.70	2.05	3.40	3.95
Torque constant	mNm/A (oz-in/A)	14.9 (2.11)	19.5 (2.76)	32.5 (4.60)	37.7 (5.33)
Terminal resistance	ohm	1.6	2.9	6.2	9.9
Motor regulation R/k <sup>2</sup>	10 <sup>3</sup> /Nms	7.3	7.6	5.9	7
Rotor inductance	mH	0.20	0.30	0.75	1.10
Rotor inertia	kgm <sup>2</sup> 10 <sup>-7</sup>	20	18	20	18
Mechanical time constant	ms	15	14	12	13

Executions			
		Single Shaft	Double Shaft for E9
Gearbox	Page	28DT12--	28DT12--
R32	243	4	106
R40	248	1	98

- Thermal Resistance: rotor-body 4 °C/W, body-ambient 8 °C/W
- Thermal time constant - rotor / stator: 18s / 630 s
- Max. rated coil temperature: 155°C (210°F)
- Recom. ambient temperature range: -30°C to +125°C (-22°F to +257°F)
- Viscous damping constant: 1 x 10<sup>-6</sup> Nms
- Max. axial static force for press-fit: 500 N
- End play: ≤ 150 µm
- Radial play: ≤ 25 µm
- Shaft runout: ≤ 10 µm
- Max. side load at 10 mm from mounting face
  - sleeve bearings 8 N
  - ball bearings 10 N
- Motor fitted with sleeve bearings (ball bearings optional)
- Optional RFI filter

Max. Recommended Speed

