ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

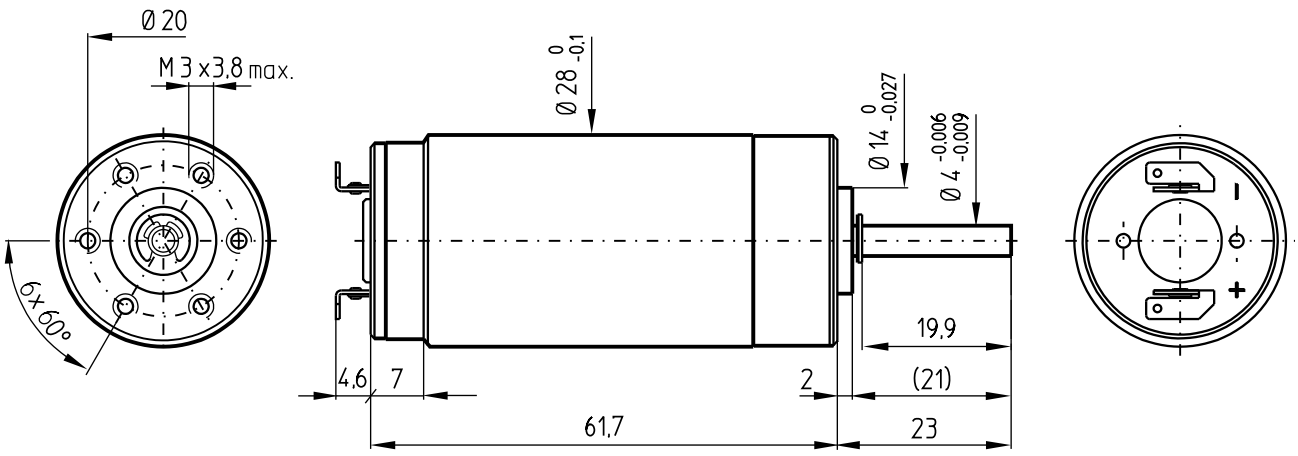
Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Portescap 28D 11 222 E 2* at our website: *Click HERE*



scale: 1:1
dimensions in mm
mass: 190 g

28D11 - ▯▯▯▯ • 2

Winding types - ▯▯▯▯			28D11-...•2	■ -222P	▲ -219P	▲ -222E	■ -219E
Measured values							
1	Measuring voltage		V	9	12	18	24
2	No-load speed		rpm	5300	5800	5300	6000
3	Stall torque		mNm (oz-in)	97 (13.75)	94 (13.27)	101 (14.26)	95 (13.47)
4	Average no-load current		mA	50	40	25	20
5	Typical starting voltage		V	0.1	0.15	0.2	0.3
Max. recommended values							
6	Max. continuous current		A	1.5	1.5	1.17	0.9
7	Max. continuous torque		mNm (oz-in)	23.5 (3.32)	28.5 (4.04)	37.1 (5.26)	33.7 (4.76)
8	Max. angular acceleration		10^3 rad/s^2	46	48	47	48
Intrinsic parameters							
9	Back-EMF constant		V/1000 rpm	1.70	2.05	3.40	3.95
10	Torque constant		mNm/A (oz-in/A)	16.2 (2.29)	19.5 (2.76)	32.5 (4.60)	37.7 (5.33)
11	Terminal resistance		ohm	1.5	2.5	5.8	9.5
12	Motor regulation R/k^2		10^3/Nms	5.7	6.6	5.5	6.7
13	Rotor inductance		mH	0.2	0.3	0.75	1.1
14	Rotor inertia		kgm^2 . 10^{-7}	19.8	17.6	19.8	17.6
15	Mechanical time constant		ms	11	12	11	12
Thermal parameters							
16	Thermal time constant	rotor	s	20	18	20	18
17		stator	s	630	630	630	630
18	Thermal resistance	rotor-body	°C/W	4	4	4	4
19		body-ambient	°C/W	8	8	8	8

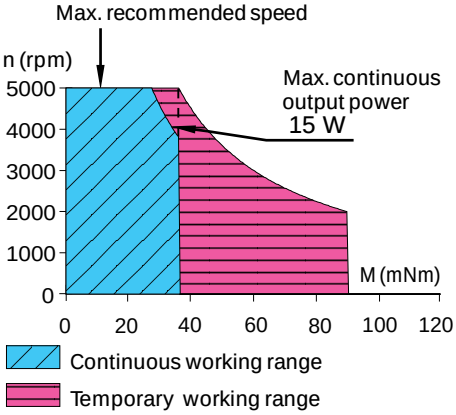
■ Preferred ▲ Standard ❍ On request

This motor series is also available in the following combinations:

- with DC tacho (motor-tacho unit 28GD11), see p. 41
- with reduction gearbox as shown below:

28D11 ▯	R32
-222P	❍
-219P	❍
-222E	❍
-219E	▲
see page	98

- Motor fitted with sleeve bearings (ball bearings optional)
- Viscous damping constant: 1 x 10^{-6} Nms
- Max. rated coil temperature: 100 °C (210 °F)
- Recom. ambient temperature range: -30 °C to +65 °C (-22 °F to +150 °F)
- 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 5 mm from mounting face: sleeve bearings 8 N
  ball bearings 10 N



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Specifications subject to change without prior notice

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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