

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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DC-Micromotors

Precious Metal Commutation

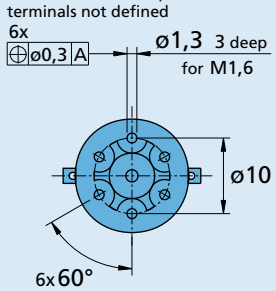
1 mNm

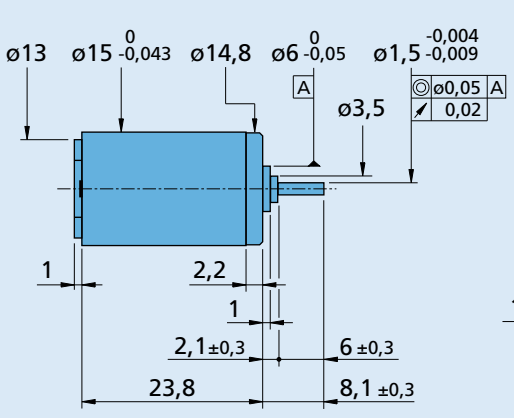
For combination with
Gearheads:
15A, 15/3, 15/4, 15/5, 15/8, 16A, 16/7

Series 1524 ... S

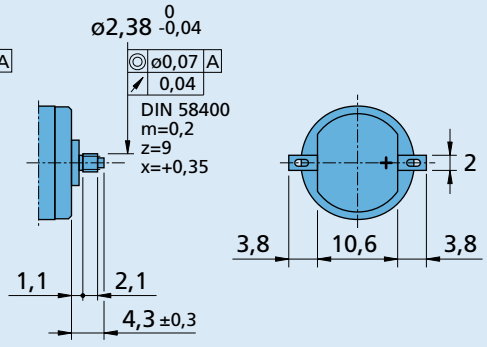
			1524 E		006 S	009 S	012 S	018 S	024 S	
1	Nominal voltage	U_N			6	6	12	15	24	Volt
2	Terminal resistance	R			11	19	48	90	178	Ω
3	Output power	$P_{2\ max.}$			0,78	1,03	0,72	0,86	0,77	W
4	Efficiency	$\eta_{max.}$			74	78	76	76	74	%
5	No-load speed	n_o			13 400	15 000	12 500	12 600	13 000	min^{-1}
6	No-load current (with shaft ø 1 mm)	I_o			0,012	0,007	0,005	0,004	0,003	A
7	Stall torque	M_H			2,23	2,63	2,21	2,62	2,27	mNm
8	Friction torque	M_R			0,05	0,04	0,04	0,05	0,05	mNm
9	Speed constant	k_n			2 280	1 690	1 060	714	554	min^{-1}/V
10	Back-EMF constant	k_E			0,438	0,591	0,941	1,400	1,810	mV/min^{-1}
11	Torque constant	k_M			4,18	5,64	8,98	13,4	17,2	mNm/A
12	Current constant	k_I			0,239	0,177	0,111	0,075	0,058	A/mNm
13	Slope of n-M curve	$\Delta n/\Delta M$			6 010	5 700	5 660	4 810	5 730	min^{-1}/mNm
14	Rotor inductance	L			150	350	850	1 400	3 100	µH
15	Mechanical time constant	τ_m			27	28	26	27	27	ms
16	Rotor inertia	J			0,43	0,47	0,44	0,54	0,45	gcm^2
17	Angular acceleration	$\alpha_{max.}$			52	56	50	49	50	$\cdot 10^3 rad/s^2$
18	Thermal resistance	$R_{th\,1} / R_{th\,2}$		8 / 43						K/W
19	Thermal time constant	τ_{w1} / τ_{w2}		2,1 / 300						s
20	Operating temperature range:									
	– motor			– 30 ... +85 (optional – 55 ... + 125)						°C
	– rotor, max. permissible			+125						°C
21	Shaft bearings			sintered bronze sleeves			ball bearings, preloaded			
22	Shaft load max.:			(standard)			(optional)			
	– with shaft diameter			1,0			1,5			mm
	– radial at 3 000 min^{-1} (3 mm from bearing)			0,6			5			N
	– axial at 3 000 min^{-1}			0,1			0,5			N
	– axial at standstill			20			10			N
23	Shaft play:									
	– radial	≤		0,03			0,015			mm
	– axial	≤		0,2			0			mm
24	Housing material			steel, zinc galvanized and passivated						
25	Weight			18						g
26	Direction of rotation			clockwise, viewed from the front face						
Recommended values - mathematically independent of each other										
27	Speed up to	$n_{e\ max.}$			12 000	12 000	12 000	12 000	12 000	min^{-1}
28	Torque up to	$M_{e\ max.}$			1	1	1	1	1	mNm
29	Current up to (thermal limits)	$I_{e\ max.}$			0,36	0,27	0,17	0,12	0,09	A

Orientation with respect to motor terminals not defined





1524 T ... S



1524 E ... S

For notes on technical data and lifetime performance refer to "Technical Information".

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Specifications subject to change without notice.

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

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