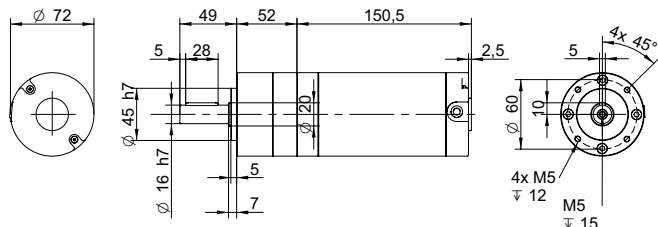


# PD72151A | Ø 72 mm | 12 V | BRUSHED DC PLANETARY GEAR MOTOR



DRAWING (mm)



PHOTO

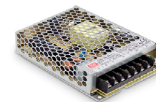


MODEL NO. DESIGNATION

PD72151A - VOLTAGE - GEAR RATIO

Example: PD72151A-12-3.6

ACCESSORIES



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

GEAR MOTOR DATA																						C			
Gear ratio		3.6:1	5.3:1	6.5:1	8.6:1	13:1	18:1	24:1	28:1	33:1	44:1	58:1	67:1	81:1	91:1	102:1	118:1	127:1	145:1	165:1	191:1	231:1	301:1	392:1	
Nominal torque	Nm	0.62	0.92	1.1	1.5	2.1	2.9	3.8	4.3	5.2	6.9	9.0	9.3	11	13	14	17	18	20	23	27	32	42	55	
Nominal speed	rpm	820	560	460	350	220	160	120	110	88	67	52	45	37	33	29	25	23	21	18	16	13	9.9	7.6	
Nominal power	W	54	54	54	54	48	48	48	48	48	48	48	44	44	44	44	44	44	44	44	44	44	44	44	44
Gearbox peak torque	Nm	28	28	28	28	84	84	84	84	84	84	84	170	170	170	170	170	170	170	170	170	170	170	170	170
Gearbox efficiency	%	90	90	90	90	81	81	81	81	81	81	81	73	73	73	73	73	73	73	73	73	73	73	73	73
Gearbox length   L	mm	52	52	52	72.15	72.15	72.15	72.15	72.15	72.15	72.15	72.15	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
Weight	kg	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

OTHER GEAR MOTOR DATA		C
Service life	h	2000
Performance tolerances	%	±15
Operating temperature	°C	-10 to 80 ●
Noise level <sup>1</sup>	dB(A)	60
IP rating		IP20
Manufacturing standard		ISO 9001
CE label   UL label		No   No ●

BRUSHED DC MOTOR DATA		C
Nominal voltage	V	12
No load speed	rpm	3500
No load current	A	2
Nominal speed	rpm	3000
Nominal torque	mNm	190
Nominal current	A	7.2
Nominal power	W	60
Varistor EMC	V	No
Capacitor EMC	V	No
Insulation class		B
Power harness		AWG16 UL1015
Power harness length	mm	300

**NOTES**  
1. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

GEARBOX DATA		C
Radial load	N	760
Shaft axial load	N	160
Bearing type		Ball bearing
Motor pinion material		Metal
Motor pinion shape		Straight
Material gear stage		Metal
Direction of rotation		CCW or CW by reversed V polarity
Assembly front bell	mm	12