



BRUSHED DC PLANETARY GEAR MOTORS | 12 - 48 V 0.26 - 160 Nm

PD SERIES

We offer a broad range of high quality brushed DC spur gear motors in standard and customized configurations. Our customer-centric approach makes us the ideal supplier for your project, especially to instrument and apparatus builders. In addition, we offer immediate delivery, thanks to always having a high number of motors in stock.

Customizations include:

- ✓ Customized harness
- ✓ Winding configuration
- ✓ Shaft configuration
- ✓ And more...

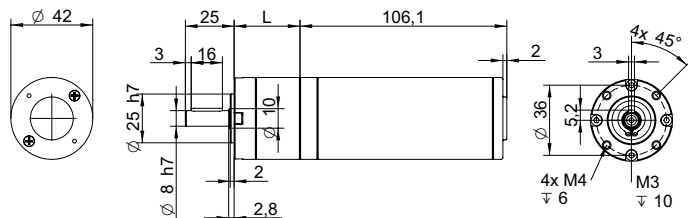
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PD42106A | Ø 42 mm | 24 V | BRUSHED DC PLANETARY GEAR MOTOR



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

PD42106A - VOLTAGE - GEAR RATIO

Example: PD42106A-24-3.6

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

		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
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	0.26	0.39	0.47	0.62	0.88	1.2	1.6	1.8	2.2	2.9	3.8	3.9	4.7	5.3	6.0	6.9	7.5	8.5	9.7	11	14	15'	15'
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	23	23	23	23	20	20	20	20	20	20	20	18	18	18	18	18	18	18	18	18	18	18	18
Gearbox peak torque	Nm	6	6	6	6	15	15	15	15	15	15	15	30	30	30	30	30	30	30	30	30	30	30	30
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
Gearbox length L	mm	33.8	33.8	33.8	33.8	47.4	47.4	47.4	47.4	47.4	47.4	47.4	61	61	61	61	61	61	61	61	61	61	61	61
Weight	kg	0.74	0.74	0.74	0.74	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97

OTHER GEAR MOTOR DATA

Service life	h	600	
Performance tolerances	%	±15	
Operating temperature	°C	-10 to 80	●
Noise level ²	dB(A)	60	
IP rating		IP20	
Manufacturing standard		ISO 9001	
CE label UL label		No No	●

BRUSHED DC MOTOR DATA

Nominal voltage	V	24	
No load speed	rpm	3500	
No load current	A	0.6	
Nominal speed	rpm	3000	
Nominal torque	mNm	80	
Nominal current	A	1.6	
Nominal power	W	25	
Varistor EMC	V	No	
Capacitor EMC	V	No	
Insulation class		B	
Power harness		AWG20 UL1015	
Power harness length	mm	300	

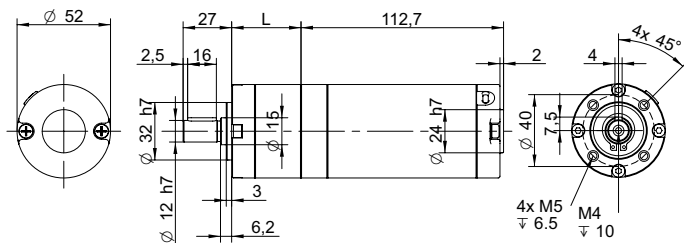
NOTES

1. Gearbox limit.
2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

GEARBOX DATA

Radial load	N	300	
Shaft axial load	N	110	
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	6	

DRAWING (mm)



PHOTO

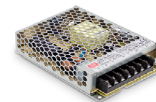


MODEL NO. DESIGNATION

PD52112A - VOLTAGE - GEAR RATIO

Example: PD52112A-24-3.6

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

		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
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	0.43	0.63	0.77	1.0	1.4	2.0	2.6	3.0	3.6	4.7	6.1	6.4	7.7	8.7	9.8	11	12	14	16	18	22	25'	25'
Nominal speed	rpm	820	560	460	350	220	160	120	110	88	67	52	45	37	33	29	25	23	21	18	16	13	10	8
Nominal power	W	37	37	37	37	33	33	33	33	33	33	33	30	30	30	30	30	30	30	30	30	30	30	30
Gearbox peak torque	Nm	8	8	8	8	24	24	24	24	24	24	24	50	50	50	50	50	50	50	50	50	50	50	50
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
Gearbox length L	mm	38.6	38.6	38.6	38.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
Weight	kg	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

OTHER GEAR MOTOR DATA

Service life	h	2000		
Performance tolerances	%	±15		
Operating temperature	°C	-10 to 80	●	
Noise level ²	dB(A)	60		
IP rating		IP20		
Manufacturing standard		ISO 9001		
CE label UL label		No No	●	

BRUSHED DC MOTOR DATA

Nominal voltage	V	24	
No load speed	rpm	3500	
No load current	A	1	
Nominal speed	rpm	3000	
Nominal torque	mNm	130	
Nominal current	A	2.5	
Nominal power	W	40	
Varistor EMC	V	No	
Capacitor EMC	V	No	
Insulation class		B	
Power harness		AWG20 UL1015	
Power harness length	mm	300	

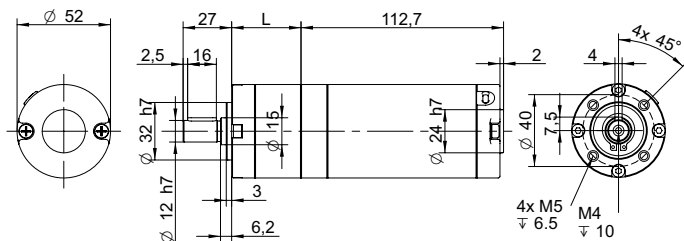
NOTES

1. Gearbox limit.
2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

GEARBOX DATA

Radial load	N	450	
Shaft axial load	N	150	
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	6.5	

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

PD52112B - VOLTAGE - GEAR RATIO

Example: PD52112B-24-3.6

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

		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
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	25 ¹	25 ¹	25 ¹	25 ¹
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
Gearbox peak torque	Nm	8	8	8	8	24	24	24	24	24	24	24	50	50	50	50	50	50	50	50	50	50	50	50
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
Gearbox length L	mm	38.6	38.6	38.6	38.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
Weight	kg	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

OTHER GEAR MOTOR DATA

Service life	h	2000		
Performance tolerances	%	±15		
Operating temperature	°C	-10 to 80	●	
Noise level ²	dB(A)	60		
IP rating		IP20		
Manufacturing standard		ISO 9001		
CE label UL label		No No	●	

BRUSHED DC MOTOR DATA

Nominal voltage	V	24	
No load speed	rpm	3600	
No load current	A	1.2	
Nominal speed	rpm	3000	
Nominal torque	mNm	190	
Nominal current	A	4	
Nominal power	W	60	
Varistor EMC	V	No	
Capacitor EMC	V	No	
Insulation class		B	
Power harness		AWG20 UL1015	
Power harness length	mm	300	

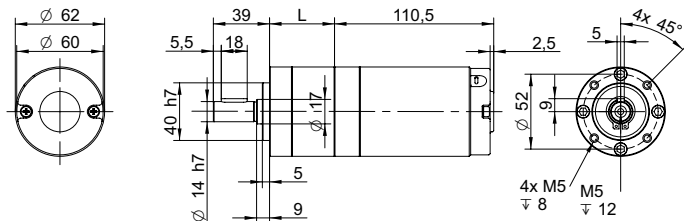
NOTES

1. Gearbox limit.
2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

GEARBOX DATA

Radial load	N	450	
Shaft axial load	N	150	
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	6.5	

DRAWING (mm)



PHOTO

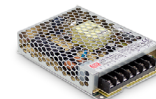


MODEL NO. DESIGNATION

PD62110A - VOLTAGE - GEAR RATIO

Example: PD62110A-24-3.6

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

		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	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	0.43	0.63	0.77	1.0	1.4	2.0	2.6	3.0	3.6	4.7	6.1	6.4	7.7	8.7	9.8	11	12	14	16	18	22	29	37	
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	37	37	37	37	33	33	33	33	33	33	33	30	30	30	30	30	30	30	30	30	30	30	30	
Gearbox peak torque	Nm	16	16	16	16	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	
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	
Gearbox length L	mm	45.1	45.1	45.1	45.1	62.7	62.7	62.7	62.7	62.7	62.7	62.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	
Weight	kg	2	2	2	2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	

OTHER GEAR MOTOR DATA

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

BRUSHED DC MOTOR DATA

Nominal voltage	V	24		
No load speed	rpm	3500		
No load current	A	1.2		
Nominal speed	rpm	3000		
Nominal torque	mNm	130		
Nominal current	A	2.5		
Nominal power	W	40		
Varistor EMC	V	No		
Capacitor EMC	V	No		
Insulation class		B		
Power harness		AWG20 UL1015		
Power harness length	mm	300		

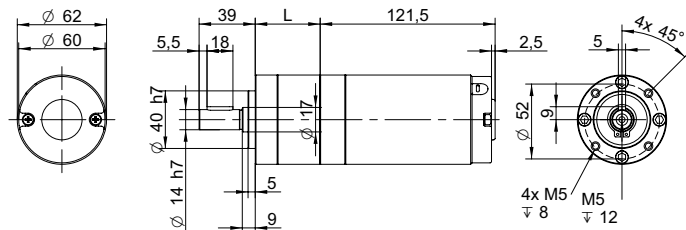
NOTES

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

GEARBOX DATA

Radial load	N	520		
Shaft axial load	N	150		
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	8		

DRAWING (mm)



PHOTO

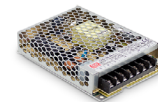


MODEL NO. DESIGNATION

PD62121A - VOLTAGE - GEAR RATIO

Example: PD62121A-24-3.6

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	50 ¹
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
Gearbox peak torque	Nm	16	16	16	16	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100
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
Gearbox length L	mm	45.1	45.1	45.1	45.1	62.7	62.7	62.7	62.7	62.7	62.7	62.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
Weight	kg	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

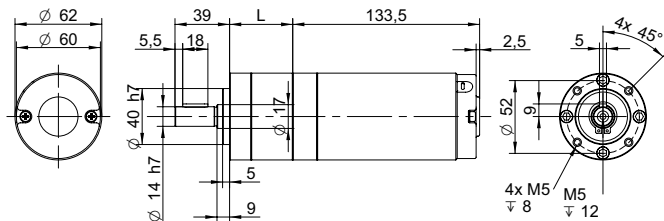
OTHER GEAR MOTOR DATA		C
Service life	h	2000
Performance tolerances	%	±15
Operating temperature	°C	-10 to 80 ●
Noise level ¹	dB(A)	60
IP rating		IP20
Manufacturing standard		ISO 9001
CE label UL label		No No ●

BRUSHED DC MOTOR DATA		C
Nominal voltage	V	24
No load speed	rpm	3500
No load current	A	1.2
Nominal speed	rpm	3000
Nominal torque	mNm	190
Nominal current	A	3.5
Nominal power	W	60
Varistor EMC	V	No
Capacitor EMC	V	No
Insulation class		B
Power harness		AWG20 UL1015
Power harness length	mm	300

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

GEARBOX DATA		C
Radial load	N	520
Shaft axial load	N	150
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	8

DRAWING (mm)



PHOTO

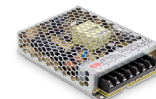


MODEL NO. DESIGNATION

PD62133A - VOLTAGE - GEAR RATIO

Example: PD62133A-24-3.6

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

		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
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	1.0	1.4	1.7	2.3	3.2	4.4	5.8	6.6	8.0	10	14	14	17	19	22	25	27	31	35	41	49	50'	50'
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	82	82	82	82	74	74	74	74	74	74	74	67	67	67	67	67	67	67	67	67	67	67	67
Gearbox peak torque	Nm	16	16	16	16	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100
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
Gearbox length L	mm	45.1	45.1	45.1	45.1	62.7	62.7	62.7	62.7	62.7	62.7	62.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
Weight	kg	2.2	2.2	2.2	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3	3	3	3	3	3	3	3	3	3	3	3

OTHER GEAR MOTOR DATA

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

BRUSHED DC MOTOR DATA

Nominal voltage	V	24	
No load speed	rpm	3700	
No load current	A	1.5	
Nominal speed	rpm	3000	
Nominal torque	mNm	290	
Nominal current	A	5.5	
Nominal power	W	90	
Varistor EMC	V	No	
Capacitor EMC	V	No	
Insulation class		B	
Power harness		AWG20 UL1015	
Power harness length	mm	300	

NOTES

1. Gearbox limit.
2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

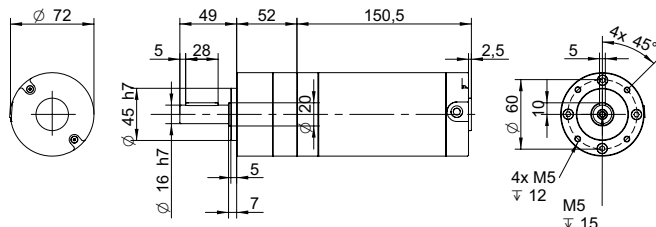
GEARBOX DATA

Radial load	N	520	
Shaft axial load	N	150	
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	8	

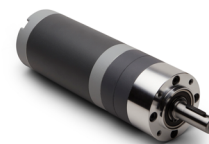
PD72151A | Ø 72 mm | 12 V | BRUSHED DC PLANETARY GEAR MOTOR



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

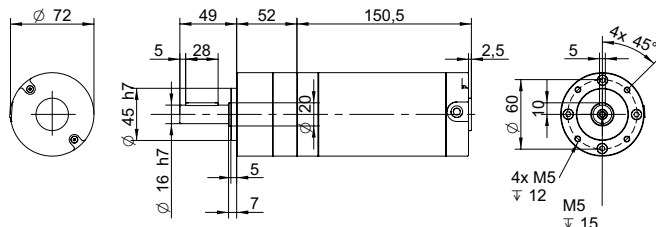
OTHER GEAR MOTOR DATA		C
Service life	h	2000
Performance tolerances	%	±15
Operating temperature	°C	-10 to 80 ●
Noise level ¹	dB(A)	60
IP rating		IP20
Manufacturing standard		ISO 9001
CE label UL label		No No ●

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

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

PD72151B - VOLTAGE - GEAR RATIO

Example: PD72151B-24-3.6

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	0.95	1.4	1.7	2.3	3.2	4.4	5.8	6.6	8.0	10	14	14	17	19	22	25	27	31	35	41	49	64	83
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	82	82	82	82	74	74	74	74	74	74	74	67	67	67	67	67	67	67	67	67	67	67	67
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
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
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
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

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

BRUSHED DC MOTOR DATA		C
Nominal voltage	V	24
No load speed	rpm	3400
No load current	A	2
Nominal speed	rpm	3000
Nominal torque	mNm	290
Nominal current	A	5.5
Nominal power	W	90
Varistor EMC	V	No
Capacitor EMC	V	No
Insulation class		B
Power harness		AWG16 UL1015
Power harness length	mm	300

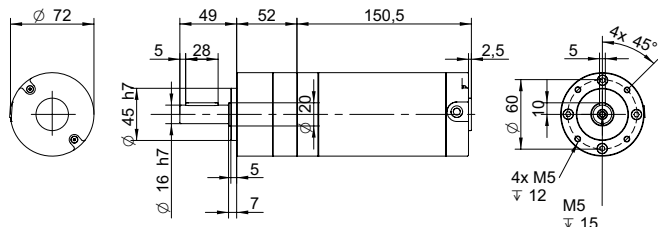
- NOTES**
1. Gearbox limit.
 2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

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

PD72151C | Ø 72 mm | 24 V | BRUSHED DC PLANETARY GEAR MOTOR



DRAWING (mm)



PHOTO

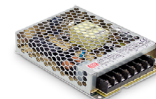


MODEL NO. DESIGNATION

PD72151C - VOLTAGE - GEAR RATIO

Example: PD72151C-24-3.6

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	1.3	1.8	2.2	3.0	4.2	5.8	7.6	8.6	10	14	18	19	22	25	29	33	35	40	46	53	64	84 ¹	84 ¹
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	110	110	110	110	97	97	97	97	97	97	97	87	87	87	87	87	87	87	87	87	87	87	87
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
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
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
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

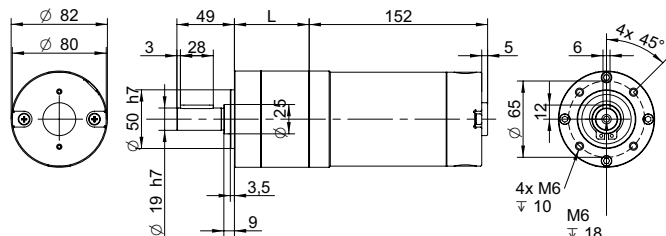
OTHER GEAR MOTOR DATA		C
Service life	h	2000
Performance tolerances	%	±15
Operating temperature	°C	-10 to 80 ●
Noise level ²	dB(A)	60
IP rating		IP20
Manufacturing standard		ISO 9001
CE label UL label		No No ●

BRUSHED DC MOTOR DATA		C
Nominal voltage	V	24
No load speed	rpm	3500
No load current	A	2
Nominal speed	rpm	3000
Nominal torque	mNm	380
Nominal current	A	7.2
Nominal power	W	120
Varistor EMC	V	No
Capacitor EMC	V	No
Insulation class		B
Power harness		AWG16 UL1015
Power harness length	mm	300

- NOTES**
1. Gearbox limit.
 2. 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

DRAWING (mm)



PHOTO

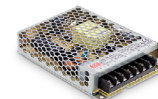


MODEL NO. DESIGNATION

PD82152A - VOLTAGE - GEAR RATIO

Example: PD82152A-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

		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	C
Gear ratio																									
Nominal torque	Nm	0.95	1.4	1.7	2.3	3.2	4.4	5.8	6.6	8.0	10	14	14	17	19	22	25	27	31	35	41	49	64	83	
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	82	82	82	82	74	74	74	74	74	74	74	67	67	67	67	67	67	67	67	67	67	67	67	
Gearbox peak torque	Nm	40	40	40	40	120	120	120	120	120	120	120	240	240	240	240	240	240	240	240	240	240	240	240	
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	
Gearbox length L	mm	63.7	63.7	63.7	63.7	80.5	80.5	80.5	80.5	80.5	80.5	80.5	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	
Weight	kg	4.5	4.5	4.5	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	

OTHER GEAR MOTOR DATA

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

BRUSHED DC MOTOR DATA

Nominal voltage	V	12		
No load speed	rpm	3500		
No load current	A	2.5		
Nominal speed	rpm	3000		
Nominal torque	mNm	290		
Nominal current	A	11		
Nominal power	W	90		
Varistor EMC	V	No		
Capacitor EMC	V	No		
Insulation class		B		
Power harness		AWG16 UL1015		
Power harness length	mm	300		

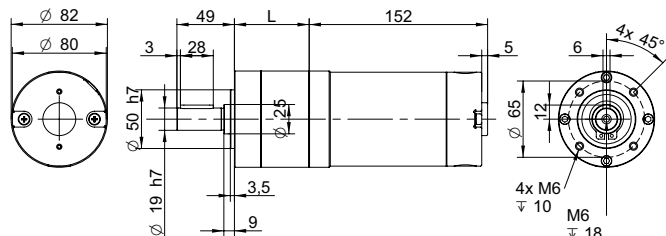
NOTES

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

GEARBOX DATA

Radial load	N	1000		
Shaft axial load	N	200		
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		

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

PD82152B - VOLTAGE - GEAR RATIO

Example: PD82152B-24-3.6

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

		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	
Gear ratio																									
Nominal torque	Nm	1.2	1.8	2.2	3.0	4.2	5.8	7.6	8.6	10	14	18	19	22	25	29	33	35	40	46	53	64	84	109	
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	110	110	110	110	97	97	97	97	97	97	97	87	87	87	87	87	87	87	87	87	87	87	87	
Gearbox peak torque	Nm	40	40	40	40	120	120	120	120	120	120	120	240	240	240	240	240	240	240	240	240	240	240	240	
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	
Gearbox length L	mm	63.7	63.7	63.7	63.7	80.5	80.5	80.5	80.5	80.5	80.5	80.5	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	
Weight	kg	4.5	4.5	4.5	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	

OTHER GEAR MOTOR DATA

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

BRUSHED DC MOTOR DATA

Nominal voltage	V	24	
No load speed	rpm	3400	
No load current	A	2	
Nominal speed	rpm	3000	
Nominal torque	mNm	380	
Nominal current	A	7.2	
Nominal power	W	120	
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.

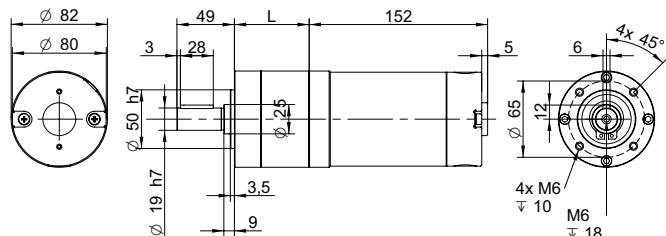
GEARBOX DATA

Radial load	N	1000	
Shaft axial load	N	200	
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	

PD82152C | Ø 82 mm | 48 V | BRUSHED DC PLANETARY GEAR MOTOR



DRAWING (mm)



PHOTO

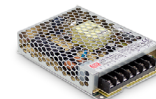


MODEL NO. DESIGNATION

PD82152C - VOLTAGE - GEAR RATIO

Example: PD82152C-48-3.6

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

		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	
Gear ratio																									
Nominal torque	Nm	1.9	2.7	3.4	4.4	6.2	8.7	11	13	16	21	27	28	34	38	43	50	53	60	69	80	96	120 ¹	120 ¹	
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	160	160	160	160	150	150	150	150	150	150	150	130	130	130	130	130	130	130	130	130	130	130	130	
Gearbox peak torque	Nm	40	40	40	40	120	120	120	120	120	120	120	240	240	240	240	240	240	240	240	240	240	240	240	
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	
Gearbox length L	mm	63.7	63.7	63.7	63.7	80.5	80.5	80.5	80.5	80.5	80.5	80.5	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	
Weight	kg	4.5	4.5	4.5	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	

OTHER GEAR MOTOR DATA

Service life	h	2000		
Performance tolerances	%	±15		
Operating temperature	°C	-10 to 80	●	
Noise level ²	dB(A)	60		
IP rating		IP20		
Manufacturing standard		ISO 9001		
CE label UL label		No No	●	

BRUSHED DC MOTOR DATA

Nominal voltage	V	48	
No load speed	rpm	3400	
No load current	A	1.5	
Nominal speed	rpm	3000	
Nominal torque	mNm	570	
Nominal current	A	5.5	
Nominal power	W	180	
Varistor EMC	V	No	
Capacitor EMC	V	No	
Insulation class		B	
Power harness		AWG16 UL1015	
Power harness length	mm	300	

NOTES

1. Gearbox limit.
2. Measured 1 m from gear motor while brushed DC motor is running at 3000 rpm.

GEARBOX DATA

Radial load	N	1000	
Shaft axial load	N	200	
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	