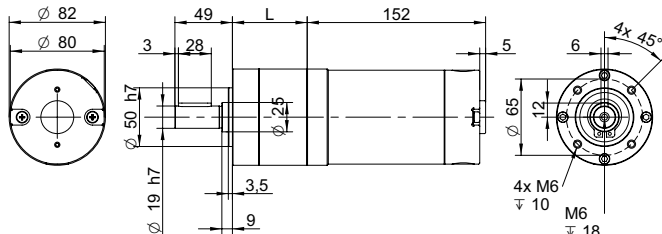


PD82152C | Ø 82 mm | 48 V | BRUSHED DC PLANETARY GEAR MOTOR



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

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	1.9	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

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	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

C

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	