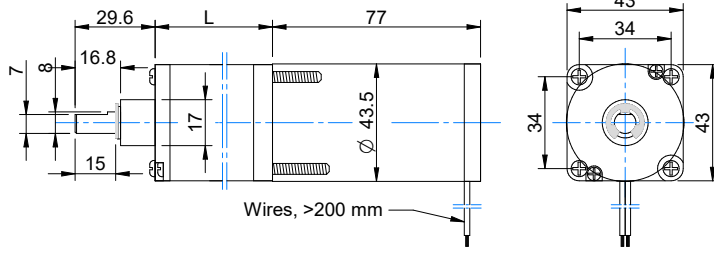


PDS4377 / Ø 43mm / 12.5W / 14.8W

DRAWING (mm)



PHOTO



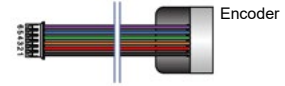
MODEL NO. DESIGNATION

PDS4377 - VOLTAGE - REDUCTION - ME / OE

Example: PDS4377-12-4

ME = Magnetic encoder
OE = Optical encoder

ADDITIONAL



GEAR MOTOR DATA

Reduction	4:1	14:1	24:1	49:1	60:1	84:1	103:1	144:1	171:1	210:1	259:1	294:1	325:1	361:1	443:1	504:1	619:1	864:1
Nominal torque 12 V (Nm) *	0.16	0.50	0.86	1.58	1.93	2.70	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Nominal speed 12 V (rpm) *	675	193	113	55	45	32	26	19	16	13	10	9	8	8	6	5	4	3
Nominal torque 24 V (Nm) *	0.16	1.58	1.93	2.70	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Nominal speed 24 V (rpm) *	800	229	133	65	53	38	31	22	19	15	12	11	10	9	7	6	5	4
Length (mm)	97.2	104.8	104.8	112.7	112.7	112.7	112.7	112.7	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4	120.4
Weight (g)	550	610	610	670	670	670	670	670	720	720	720	720	720	720	720	720	720	720

* Nominal speed and nominal torque have a tolerance of $\pm 15\%$

GEAR HEAD DATA

Reduction	4:1	14:1	24:1	49:1	60:1	84:1	103:1	144:1	171:1	210:1	259:1	294:1	325:1	361:1	443:1	504:1	619:1	864:1
Max. continuous torque (Nm)	0.58	1.96	1.96	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Intermittently permissible torque (Nm)	0.78	2.54	2.54	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43
Efficiency (%)	90	81	81	73	73	73	73	73	66	66	66	66	66	66	66	66	66	66
Length (mm)	20.2	27.8	27.8	35.65	35.65	35.65	35.65	35.65	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
Weight (g)	190	250	250	310	310	310	310	310	360	360	360	360	360	360	360	360	360	360

GEAR MOTOR FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Planetary gear brush dc gear motor	
Motor type	Iron core. brush commutation	Winding parameters
Motor brush type	Carbon brushes	
Motor terminals	Soldering terminals	Wiring harnesses. cables. connectors
EMC filter	No	Yes
Gear material	Metal	
Motor pinion material	Plastic	Metal
Bearing	Sleeve bearing	
Shaft	Hardened stainless steel	Dimensions
Encoder option	Magetic/Optical (to order as option)	Through shaft dim. and screw holes
Environmental protection	IP55 (with encoder or brake IP50)	
Operating temperature	-10-...+60 °C	- 40-...+60 °C
RoHS compliance	Yes	
CE label	Yes	Yes

MOTOR DATA

Nominal voltage (V)	12	24
No load speed (rpm)	3600	4000
No load current (A)	1.0	0.5
Nominal speed (rpm)	2700	3200
Nominal torque (mNm)	44	44
Nominal current (A)	2.0	1.1
Stall torque (mNm)	166	176
Starting current (A)	7	4
Output (W)	12.5	14.8
Length (mm)	77	77
Weight (g)	360	360