

DC Gear Motor

1.61.077.XXX

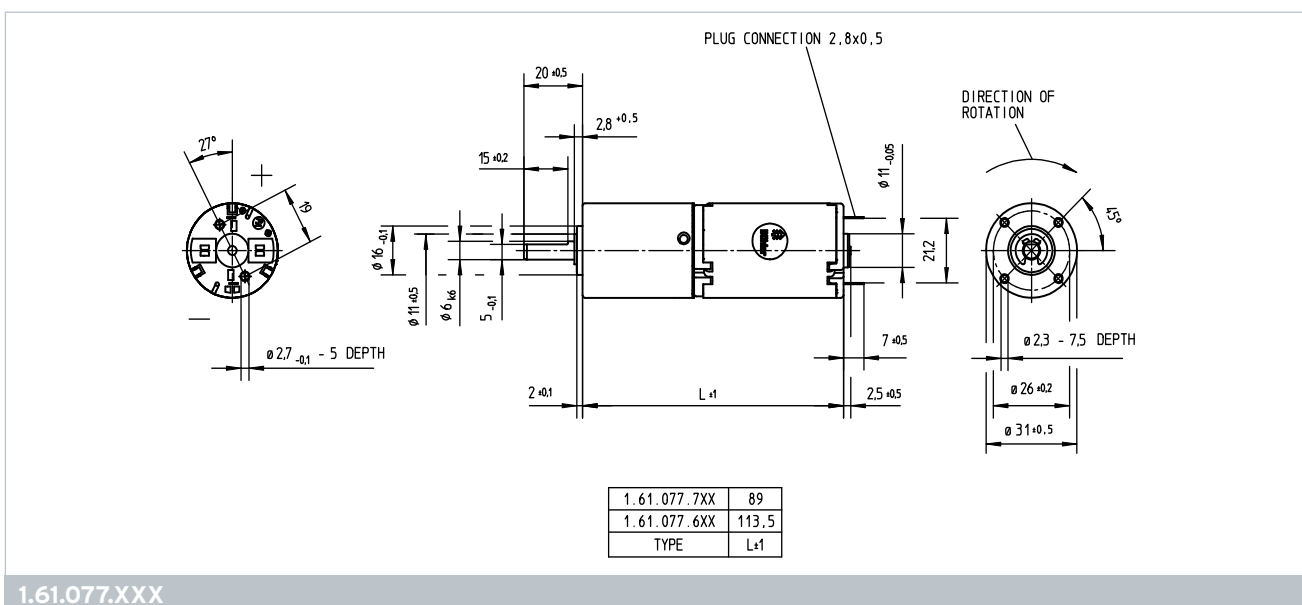
Type 1.61.077.XXX

V =	XXX	Characteristics			max. Torque*	Terminal	Stages	Gear
		Rated current	Rated torque	Rated speed		resistance		ratio
		I_N / A	T_N / mNm	n_N / rpm	$T_{\text{max}} / \text{mNm}$	R_a / Ω		
12 V	611	1.380	300	260	420	2.7	2	12.0
	612	1.370	550	140	770	2.7	2	22.0
	613	1.350	1000	75	1400	2.7	2	40.0
	714	0.860	1000	40	1400	4.8	3	73.0
	715	0.840	1800	23	2520	4.8	3	135.0
	716	0.540	2000	14	2800	4.8	3	250.0
24 V	621	0.670	300	260	420	10	2	12.0
	622	0.670	550	140	770	10	2	22.0
	623	0.660	1000	75	1400	10	2	40.0
	724	0.440	1000	40	1400	18	3	73.0
	725	0.430	1800	23	2520	18	3	135.0
	726	0.280	2000	14	2800	18	3	250.0

Operational conditions			
Temperature range	T	°C	-10 - +70
Humidity at room temperature	rel. F.	%	15 - 55
No condensation		$\text{g H}_2\text{O} / \text{m}^3$	2 - 25
Axial force	F_A	N	10
Radial force, 5 mm from mounting surface	F_R	N	30
Operating mode at T_N			S5

* at 25° C

Design	
Weight	250 g
Gear housing	Plastic
Commutator	Copper / 8-segments
RFI protection	2 chokes
Insulation class	Winding H, otherwise A
Protection class	IP40
Commutation	Graphite/copper-carbon brushes
Armature	sintered, straight slot
Magnet system	Permanent magnets, 2-pole
Bearings	2 sintered bronze bearings
Motor housing	Steel, corrosion protected
Motor end shields	brush end plastic drive end zinc die-cast
Planetary gear	Metal and plastic gears
Axial play output shaft	0.05 - 0.6 mm



Customized versions

The following modifications are available upon request:

- ▶ Encoder or incremental encoder
- ▶ External RFI board
- ▶ Speed adjustment through winding change
- ▶ Lead sets
- ▶ Shaft length
- ▶ Shaft configuration (flat, grooved, etc.)
- ▶ Drive configuration
- ▶ Adapters and mounting plates