

# DC Gear Motor · 1627N5M-16G- · $\varnothing$ 16 mm

**Specifications** Please consult your authorized sales representative for custom specifications.

Type			101-4.5-001	100-6.0-001	102-12.0-001
Rated voltage	U	V	4.5	6	12
Terminal resistance	R	Ohm	1.5	2.0	8.5
No load speed	$n_0$	rpm	10100	10000	10200
No load current	$I_0$	mA	45	45	35
Stall torque	$T_s$	mNm	12.4	16.7	15.1
Rated torque	T	mNm	2.5	3.5	3.5
Rated speed	n	rpm	6100	7500	7200
Rated current	I	mA	650	670	360
Power	$P_{max.}$	W	3.38	4.5	4.24
Max. efficiency	$\eta$	%	72	76	70
Back-EMF constant	$K_E$	mV/rpm	0.44	0.59	1.15
Torque constant	$K_T$	mNm/A	4.19	5.65	10.96
Rotor inertia	$J_{Rotor}$	gcm <sup>2</sup>	0.8	0.8	1
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	871	872	675
Length	$L_1$	mm	26.6	26.6	26.6
<b>Operational conditions*</b>					
Temperature range	T	°C	-20 ~ +65		

\* at 25° C

Gearbox - type PGM16-	ratio	4	16	62	231	1014
Output torque, continuous, max.	$M_{2max.}$ [mNm]	100	150	200	250	300
Output torque, intermittent, max.	$M_{2max.}$ [mNm]	300	450	600	750	900
Direction of rotation		=	=	=	=	=
Efficiency	$\eta$ [%]	80	70	60	50	40
Length $L_2$	mm	15.1	18.8	22.4	26.1	29.7
Radial load (5 mm from flange)	N				0.5	
Axial load	N				0.5	

## Dimension (mm) · 1627N5M-16G:

