

# DC Motor · 1720N5M- · $\varnothing$ 17 mm

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

Type			122-3.0-001	100-6.0-001	120-12.0-001
Rated voltage	U	V	3	6	12
Terminal resistance	R	Ohm	0.8	7.4	22.2
No load speed	$n_0$	rpm	12200	10000	12000
No load current	$I_0$	mA	30	30	15
Stall torque	$T_s$	mNm	8.67	4.3	4.88
Rated torque	T	mNm	2	1.2	1.3
Rated speed	n	rpm	9100	7000	8500
Rated current	I	mA	890	250	160
Power	$P_{max.}$	W	2.81	1.2	1.62
Max. efficiency	$\eta$	%	83	65	69
Back-EMF constant	$K_E$	mV/rpm	0.24	0.58	0.97
Torque constant	$K_T$	mNm/A	2.33	5.52	9.29
Rotor inertia	$J_{Rotor}$	gcm <sup>2</sup>	0.6	0.5	0.5
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	5236	5237	2954
Weight		g	23	23	23
Length	L	mm	20	20	20
<b>Operational conditions*</b>					
Temperature range	T	°C	-20 ~ +65		
Axial force dynamic	$F_{Adyn}$	N	0.5		
Axial force static	$F_{St}$	N	20		
Radial force at 3 mm from mounting face	$F_R$	N	1		

\* at 25°C

Commutator	metal 5 segments
Max. winding temperature	120 °C
Protection class	IP 20
RFI Protection	Varistor
Bearings	2 sintered bronze

## Dimension (mm) · 1720N5M:

