

DC Motor · 1221N5M- · 1231N5M- · \varnothing 12 mm

Specifications Please consult your authorized sales representative for custom specifications.

Type			1221N5M-		1231N5M-		
			115-6.0-001	115-12.0-001	84-6.0-001	63-9.0-001	63-12.0-001
Rated voltage	U	V	6	12	6	9	12
Terminal resistance	R	Ohm	6.5	27	5	17	32
No load speed	n_0	rpm	11500	11500	8400	6300	6300
No load current	I_0	mA	30	8	12	8	6
Stall torque	T_s	mNm	4.3	4.3	8.0	7.0	6.6
Rated torque	T	mNm	1	1	2	2	1.7
Rated speed	n	rpm	8500	8500	6200	4400	4600
Rated current	I	mA	240	110	310	160	100
Power	$P_{max.}$	W	1.38	1.33	1.8	1.2	1.1
Max. efficiency	η	%	67	75	81	77	76
Back-EMF constant	K_E	mV/rpm	0.51	1.0	0.71	1.41	1.88
Torque constant	K_T	mNm/A	4.83	9.8	6.76	13.44	17.91
Rotor inertia	J_{Rotor}	gcm ²	0.1	0.1	0.6	0.6	0.6
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	2700	2700	1050	900	950
Weight		g	10	10	18	18	18
Length	L	mm	21	21	30.8	30.8	30.8
Operational conditions*							
Temperature range	T	°C	-20 ~ +65		-20 ~ +65		
Axial force dynamic	F_{Adyn}	N	1		0.5		
Axial force static	F_{St}	N	10		20		
Radial force at 3 mm from mounting face	F_R	N	5		1		

Commutator	metal 5 segments
Max. winding temperature	100 °C
Protection class	IP 20
RFI Protection	Varistor
Bearings	2 sintered bronze

* at 25° C

Dimension (mm) · 1221N5M and 1231N5M:

