

DC Motor · 1020N5M- · \varnothing 10 mm

Specifications Please consult your authorized sales representative for custom specifications.

Type			225-3.0-001	168-4.5-001
Rated voltage	U	V	3	4.5
Terminal resistance	R	Ohm	2.0	10.7
No load speed	n_0	rpm	22500	16800
No load current	I_0	mA	45	20
Stall torque	T_s	mNm	1.8	0.98
Rated torque	T	mNm	0.45	0.25
Rated speed	n	rpm	16000	12200
Rated current	I	mA	410	120
Power	$P_{max.}$	W	1.13	0.47
Max. efficiency	η	%	68	61
Back-EMF constant	K_E	mV/rpm	0.13	0.26
Torque constant	K_T	mNm/A	1.24	2.44
Rotor inertia	J_{Rotor}	gcm ²	0.09	0.09
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	12500	17140
Weight		g	7	7
Length	L	mm	20.0	20.0
Operational conditions*				
Temperature range	T	°C	-20 ~ +65	
Axial force dynamic	F_{Adyn}	N	0.1	
Axial force static	F_{St}	N	10	
Radial force at 3 mm from mounting face	F_R	N	0.3	

* at 25° C

Commutator	metal 5 segments
Max. winding temperature	100 °C
Protection class	IP 20
RFI protection	No
Bearings	2 sintered bronze

Dimension (mm) · 1020N5M:

