

# DC Motor · 2020N5M- · $\varnothing$ 20 mm

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

Type			100-3.0-001	100-6.0-001	108-12.0-001
Rated voltage	U	V	3	6	12
Terminal resistance	R	Ohm	1.3	6.2	26.5
No load speed	$n_0$	rpm	10000	10000	10800
No load current	$I_0$	mA	30	25	12
Stall torque	$T_s$	mNm	6.44	5.2	4.55
Rated torque	T	mNm	1.6	1.3	1.3
Rated speed	n	rpm	7300	7300	7400
Rated current	I	mA	600	260	140
Power	$P_{max.}$	W	1.73	1	1.36
Max. efficiency	$\eta$	%	78	70	70
Back-EMF constant	$K_E$	mV/rpm	0.3	0.58	1.08
Torque constant	$K_T$	mNm/A	2.83	5.53	10.33
Rotor inertia	$J_{Rotor}$	$gcm^2$	1.6	1.6	1.4
Speed regulation constant	$\Delta n / \Delta T$	rpm/mNm	1552	1936	2373
Weight		g	30	30	30
Length	L	mm	20	20	20
<b>Operational conditions*</b>					
Temperature range	T	$^{\circ}C$	-20 ~ +85		
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 $^{\circ}C$

Commutator	metal 5 segments
Max. winding temperature	120 $^{\circ}C$
Protection class	IP 20
RFI protection	Varistor
Bearings	2 sintered bronze

## Dimension (mm) · 2020N5M:

