

BLDC Motor · 86ZWX- · 86 mm

Specifications Please consult your authorized sales representative for custom specifications.

Type			86ZWX01	86ZWX02	86ZWX03
Rated voltage	U	V	48	48	48
Terminal resistance	R	Ohm	0.32	0.15	0.1
No load speed	n_0	rpm	3500	3500	3400
Stall torque	T_s	Nm	7.0	12.6	18.9
Stall current	I_{sT}	A	150	320	480
Rated torque	T	Nm	1	1.8	2.5
Rated speed	n	rpm	3000	3000	2950
Rated current	I	A	8.5	14.8	19.5
Slope of n/M curve	$\Delta n / \Delta T$	rpm/mNm	0.5	0.3	0.3
Torque constant	K_T	mNm/A	133	133	138
Back-EMF constant	K_E	mV/rpm	13.9	13.9	14.4
Rotor Inertia	J_R	gcm ²	1200	2300	3200
Weight		kg	2.3	3.4	4.3
Length	L	mm	87	112	137
Operational conditions*					
Temperature range	T	°C	-10 to +40		
Axial force dynamic	F_{Adyn}	N	150		
Axial force static	F_{St}	N	2360		
Radial force at 3 mm from mounting face	F_R	N	250		

* at 25° C

Insulation Class	B
Protection class	IP 40
Bearings	2 ball bearings
Commutation	Hallsensor

Dimension (mm) · 86ZWX:

