

# BLDC Motor · 42ZWX- · 42 mm

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

Type			42ZWX01	42ZWX02	42ZWX03
Rated voltage	U	V	24	24	24
Terminal resistance	R	Ohm	1.42	0.73	0.39
No load speed	$n_0$	rpm	5000	5000	5000
Stall torque	$T_s$	Nm	0.32	0.63	2.43
Stall current	$I_{ST}$	A	16.9	32.88	61.54
Rated torque	T	Nm	0.063	0.125	0.185
Rated speed	n	rpm	4000	4000	4000
Rated current	I	A	1.65	3.4	4.5
Slope of n/M curve	$\Delta n / \Delta T$	rpm/mNm	15.6	7.9	2.1
Torque constant	$K_T$	mNm/A	45	44	47
Back-EMF constant	$K_E$	mV/rpm	4.71	4.61	4.92
Rotor Inertia	$J_R$	gcm <sup>2</sup>	52	93	134
Weight		kg	0.29	0.47	0.65
Length	L	mm	40.5	60.5	80.5
<b>Operational conditions*</b>					
Temperature range	T	°C	-10 to +40		
Axial force dynamic	$F_{Adyn}$	N	60		
Axial force static	$F_{St}$	N	380		
Radial force at 3 mm from mounting face	$F_R$	N	30		

\* at 25°C

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

## Dimension (mm) · 42ZWX:

