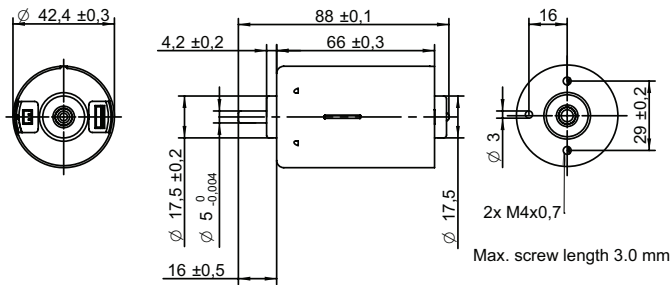


DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT4266 - VOLTAGE - INTEGRATED DRIVER

Example: BT4266-12-I

OPTIONS POWER SUPPLIES



● C = Customizations are offered on demand even for smaller quantities. Typical customizations indicated with green dot at column end. Please contact us for any customization request.

MOTOR TYPE

Brushless DC motor with integrated speed control driver.

MOTOR DATA	12V	24V	C
Nominal voltage	V 12	24	
No load speed	rpm 6000		
No load current	mA 640	330	
Nominal speed	rpm 5000	5200	●
Nominal torque	mNm 67	94	
Nominal current	A 4.5	3.0	
Start/Stall torque	mNm 410	710	
Start/Stall current	A 22	19	
Max. efficiency	% 68	76	
Nominal power	W 35	51	
Terminal resistance	Ω 0.32	0.74	
Terminal inductance	mH 0.12	0.48	
Torque constant	mNm/A 20	39	
Speed constant	rpm/V 500	250	
Speed/ torque gradient	rpm/mNm 75	56	
Rotor inertia	gcm ² 154~156	155~158	

OTHER SPECIFICATIONS

	12V	24V	C
Number of pole pairs		3	
Number of phases		3	
Weight of motor	g 380	400	
Typical noise level	dBA 44	45	
Operating temperature	°C -40 to +80		
Max. winding temperature	°C 150		
Motor insulation class		A	
IP rating		IP40	
Slot pole pairs		9S6P	
Rotor magnet		BNM-8	
Control and power harness length	mm 220 ± 10		●
Control harness end connector		A1501H00-6P	●
Control harness		UL10368 26AWG 300V 105°C	●
Power harness		UL3266 20AWG	●
Power harness end connector		XH-2P	●
Shaft length from flange	mm 16		●
Shaft diameter Ø	mm 5		
Housing material		SECD-0 1.4T	
Shaft material		SUS420 J2	
Magnet material		Bonding NdFeB	
Rotor balancing grade		G6.3	
Service life	hrs 5000		
Manufacturing standard		ISO9001 TS16949	

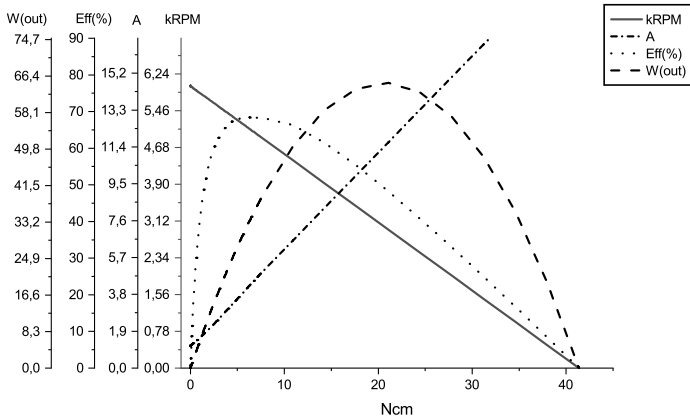
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

Color	Signal	Description	C
Yellow	DIR	Motor direction. Open DIR: CW DIR connect to GND: CCW	
Brown	PWM	375 Hz 5V. HI/LO: 100/0, max RPM 0/100, no RPM	
Green	+5V	May connect to PWM for max RPM	
Blue	FG	Presents the internal RPM signal	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	
Black	GND	0 V	
Red	Vcc	Supply voltage 12 V 24 V	

MECHANICAL DATA

	12V	24V	C
Bearing type		Ball bearing	●
Axial play	mm 0.55	0.48	
Bearing radial clearance	µm 13		
Max. axial load (dynamic)	N 7.1		

MOTOR DATA DIAGRAM 12V



MOTOR DATA DIAGRAM 24V

