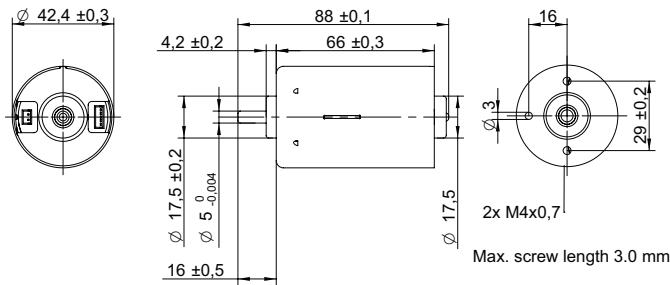


DRAWING (mm)



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		BT4266-12-I	BT4266-24-I	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

	BT4266-12-I	BT4266-24-I	C
Number of pole pairs	3		
Number of phases	3		
Weight	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	h	5000	
Manufacturing standard	ISO9001 TS16949		

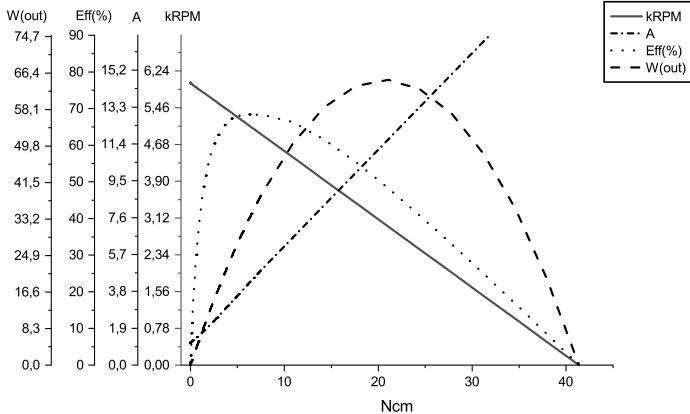
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

Color	Signal	Description	C
Red	Vcc	Supply voltage 12 V 24 V	
Black	GND	0 V	
Yellow	DIR	Motor direction. Open DIR: CW DIR connect to GND: CCW	
Green	+5V out	Connect to Brown for full speed	
Blue	Encoder	Output frequency related to speed	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	
Brown	Speed	PWM toggle between 0 to 5 V 375 Hz	

MECHANICAL DATA

			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

