



BRUSHLESS DC MOTORS | Ø 28 - 42 mm 3.1 - 51 W

WITH INTERNAL DRIVER

We offer a broad range of high quality motors in standard and customized configurations. Our customer-centric approach makes us the ideal supplier for your project, especially to instrument and apparatus builders. In addition, we offer immediate delivery, thanks to always having a high number of motors in stock.

Customizations include:

- ✓ Customized harness
- ✓ Winding configuration
- ✓ Shaft configuration
- ✓ And more...

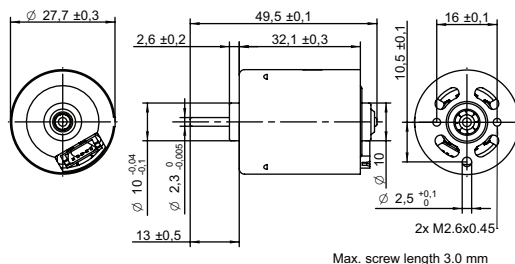
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BT2832-I	28	32	12 24	5200 5100	5.9 5.8	3.2 3.1	1
BT2838-I	28	38	12 24	5300 5100	8.3 9.4	4.6 5	2
BT3229-I	32	29	12 24	4900 4800	7.1 8.5	3.6 4.3	3
BT3640-I	36	40	12 24	4900 5000	19 21	10 11	4
BT3649-I	36	49	12 24	5200 5100	24 37	13 20	5
BT3657-I	36	57	12 24	5200 5400	29 32	16 18	6
BT4259-I	42	59	12 24	4900 5300	52 77	27 43	7
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BT2832-I | Ø 28 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

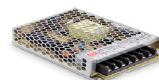
BT2832

- VOLTAGE

- INTEGRATED DRIVER

Example: BT2832-12-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	49	34	
Nominal speed	rpm	5200	5100	●
Nominal torque	mNm	5.9	5.8	
Nominal current	A	0.4	0.2	
Start/Stall torque	mNm	39	38	
Start/Stall current	A	2.2	1.0	
Max. efficiency	%	74	70	
Nominal power	W	3.2	3.1	
Terminal resistance	Ω	4.1	19	
Terminal inductance	mH	1.7	7	
Torque constant	mNm/A	19	39	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	880	880	
Rotor inertia	gcm ²	14~17	13~16	

MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0	
Bearing radial clearance	μm	10	
Max. axial load (dynamic)	N	3.2	
Max. force for press fits (static)	N	4.9	

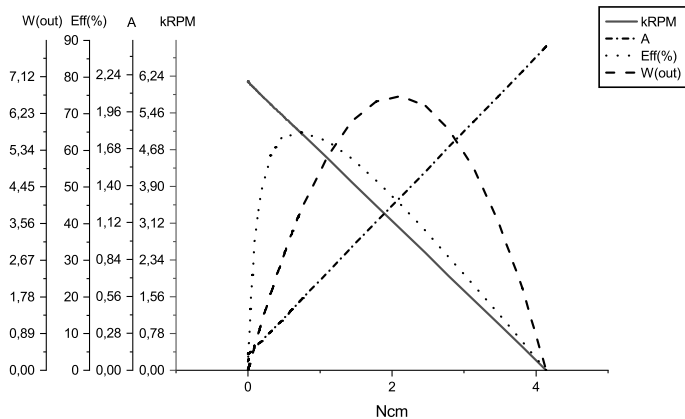
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		2		
Number of phases		3		
Weight of motor	g	71	70	
Typical noise level	dBA	33	33	
Operating temperature	°C	-40 to +80		
Max. winding temperature	°C	150		
Motor insulation class		A		
IP rating		IP40		
Slot pole pairs		6S4P		
Rotor magnet		BNM-8		
Control and power harness length	mm	205 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Connector on motor body		JST:B6B-ZR		
Shaft length from flange	mm	13		●
Shaft diameter ø	mm	2.3		
Housing material		SECD-0 0.7T		
Shaft material		SUS420 J2		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

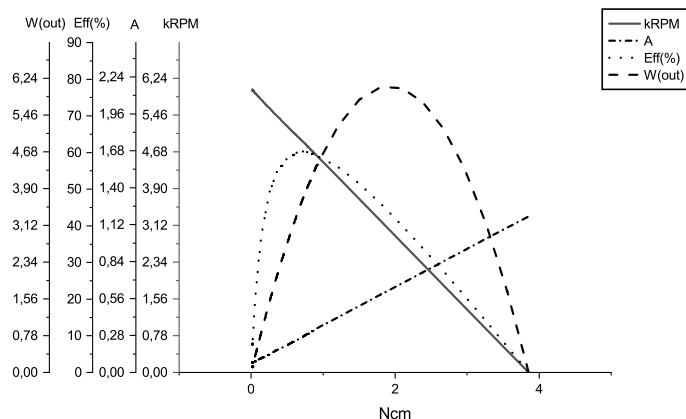
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

MOTOR DATA DIAGRAM 12V



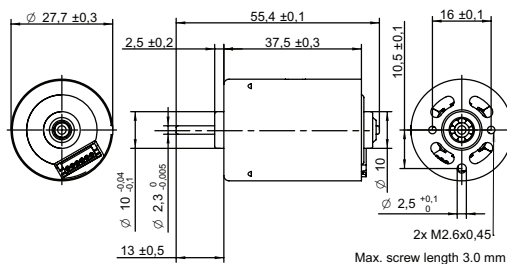
MOTOR DATA DIAGRAM 24V



BT2838-I | Ø 28 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT2838

- VOLTAGE

- INTEGRATED DRIVER

Example: BT2838-12-I

OPTIONS POWER SUPPLIES



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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	58	73	
Nominal speed	rpm	5300	5100	●
Nominal torque	mNm	8.3	9.4	
Nominal current	A	0.6	0.3	
Start/Stall torque	mNm	52	37	
Start/Stall current	A	2.9	1.6	
Max. efficiency	%	69	65	
Nominal power	W	4.6	5	
Terminal resistance	Ω	3.1	13	
Terminal inductance	mH	1.2	4.9	
Torque constant	mNm/A	18	25	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	630	540	
Rotor inertia	gcm ²	50~54	48~54	

MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0	
Bearing radial clearance	μm	10	
Max. axial load (dynamic)	N	3.2	
Max. force for press fits (static)	N	4.9	

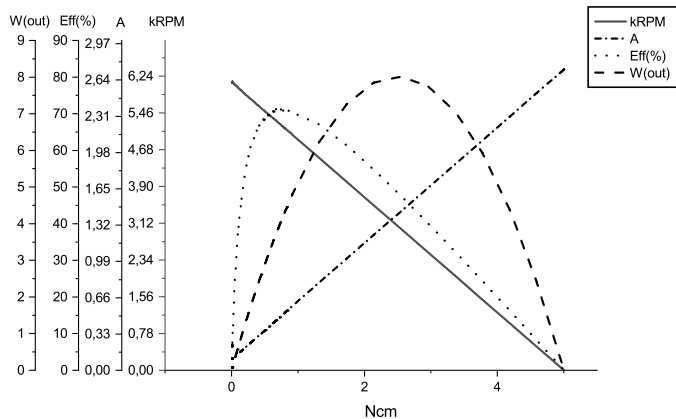
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		2		
Number of phases		3		
Weight of motor	g	71	70	
Typical noise level	dBA	41	35	
Operating temperature	°C	-40 to +80		
Max. winding temperature	°C	150		
Motor insulation class		A		
IP rating		IP40		
Slot pole pairs		6S4P		
Rotor magnet		BNM-8		
Control and power harness length	mm	205 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Connector on motor body		JST:B6B-ZR		
Shaft length from flange	mm	13		●
Shaft diameter Ø	mm	2.3		
Housing material		SECD-0 0.7T		
Shaft material		SUS420 J2		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

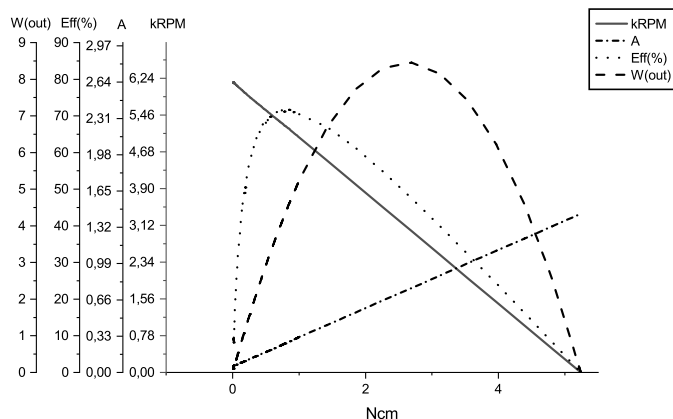
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

MOTOR DATA DIAGRAM 12V



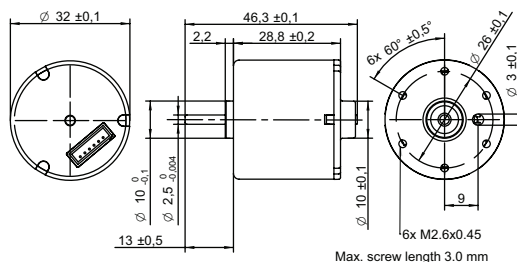
MOTOR DATA DIAGRAM 24V



BT3229-I | Ø 32 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT3229 - VOLTAGE - INTEGRATED DRIVER

Example: BT3229-12-I

OPTIONS POWER SUPPLIES



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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	72	40	
Nominal speed	rpm	4900	4800	●
Nominal torque	mNm	7.1	8.5	
Nominal current	A	0.4	0.3	
Start/Stall torque	mNm	43	46	
Start/Stall current	A	2.2	1.2	
Max. efficiency	%	71	70	
Nominal power	W	3.6	4.3	
Terminal resistance	Ω	4.2	17	
Terminal inductance	mH	1.2	3.7	
Torque constant	mNm/A	20	40	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	690	560	
Rotor inertia	gcm ²	19~24	20~23	

MECHANICAL DATA

			C
Bearing type		Sleeve bearing	●
Axial play	mm	0.27	0.3
Max. axial load (dynamic)	N	2.7	

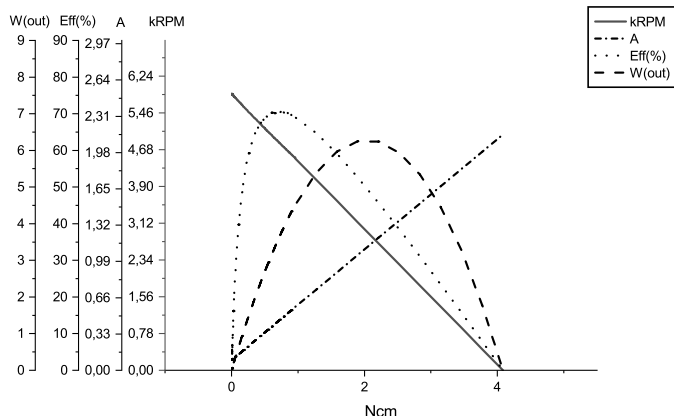
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		3		
Number of phases		3		
Weight of motor	g	76		
Typical noise level	dBA	30	32	
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-6	BNM-8	
Control and power harness length	mm	120 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Connector on motor body		JST:B6B-ZR		
Shaft length from flange	mm	13		●
Shaft diameter Ø	mm	2.5		
Housing material		SECD-0 1.0T		
Shaft material		SUS420 J2		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

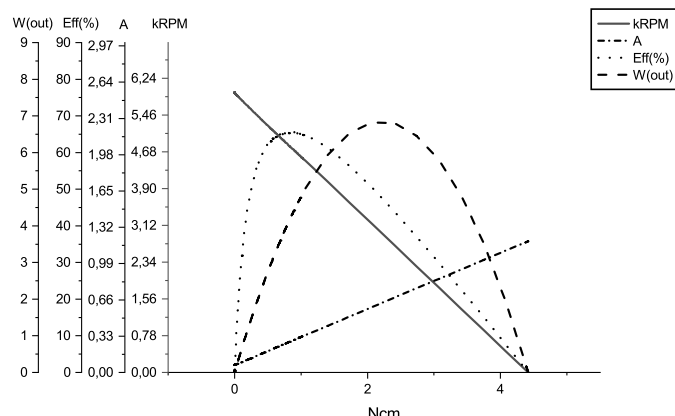
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			C
Red	Vcc	Supply voltage 12 V 24 V	
Black	GND	0 V	
Yellow	DIR	Motor direction. Open DIR:CCW DIR connect to GND: CW	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

MOTOR DATA DIAGRAM 12V



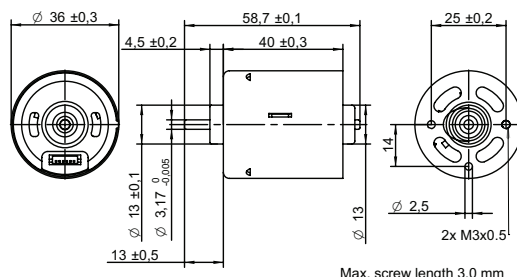
MOTOR DATA DIAGRAM 24V



BT3640-I | Ø 36 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT3640 - VOLTAGE - INTEGRATED DRIVER

Example: BT3640-12-I

OPTIONS POWER SUPPLIES



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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	200	120	
Nominal speed	rpm	4900	5000	●
Nominal torque	mNm	19	21	
Nominal current	A	1.1	0.7	
Start/Stall torque	mNm	130	150	
Start/Stall current	A	6.6	3.8	
Max. efficiency	%	77	72	
Nominal power	W	10	11	
Terminal resistance	Ω	1.1	4.2	
Terminal inductance	mH	0.7	2.7	
Torque constant	mNm/A	20	40	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	260	240	
Rotor inertia	gcm ²	30~33	36~39	

MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0.65	0.68
Bearing radial clearance	μm	12	
Max. axial load (dynamic)	N	4.9	
Max. force for press fits (static)	N	13	

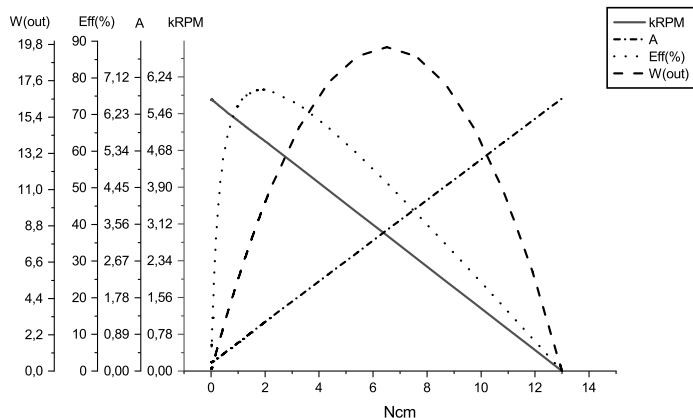
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		2		
Number of phases		3		
Weight of motor	g	150		
Typical noise level	dBA	38	37	
Operating temperature	°C	-40 to +80		
Max winding temperature	°C	150		
Motor insulation class		A		
IP rating		IP40		
Slot pole pairs		6S4P		
Rotor magnet		BNM-8		
Control and power harness length	mm	205 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Shaft length from flange	mm	13		●
Shaft diameter ø	mm	3.17		
Housing material		SECD-0 1.0T		
Shaft material		S70C		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

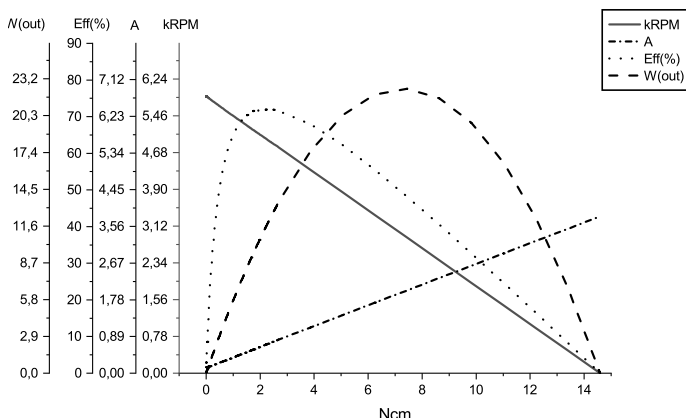
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

MOTOR DATA DIAGRAM 12V



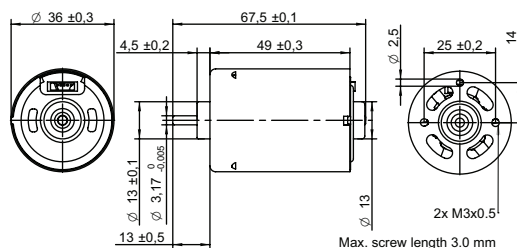
MOTOR DATA DIAGRAM 24V



BT3649-I | Ø 36 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT3649 - VOLTAGE - INTEGRATED DRIVER

Example: BT3649-12-I

OPTIONS POWER SUPPLIES



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MOTOR TYPE

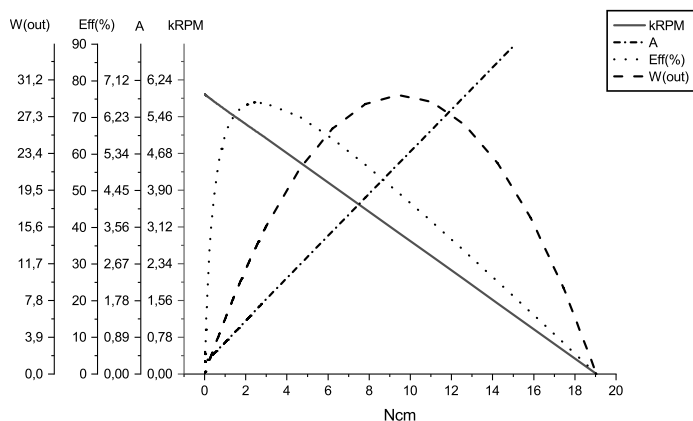
Brushless DC motor with integrated speed control driver.

MOTOR DATA		12V	24V	C
Nominal voltage	V	12	24	
No load speed	rpm	6000		
No load current	mA	260	140	
Nominal speed	rpm	5200	5100	●
Nominal torque	mNm	24	37	
Nominal current	A	1.5	1.1	
Start/Stall torque	mNm	190	260	
Start/Stall current	A	10	6.8	
Max. efficiency	%	74	77	
Nominal power	W	13	20	
Terminal resistance	Ω	0.6	2.0	
Terminal inductance	mH	0.4	1.8	
Torque constant	mNm/A	20	39	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	220	140	
Rotor inertia	gcm ²	45~48	45~49	

MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0.47	0.51
Bearing radial clearance	μm	12	
Max. axial load (dynamic)	N	4.9	
Max. force for press fits (static)	N	13	

MOTOR DATA DIAGRAM 12V



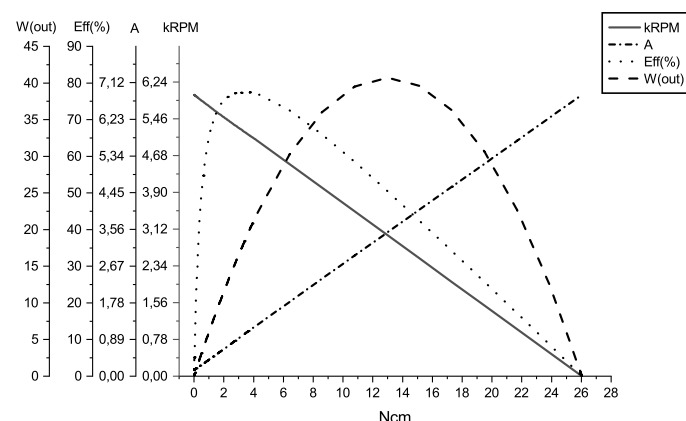
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		2		
Number of phases		3		
Weight of motor	g	200		
Typical noise level	dBA	36	37	
Operating temperature	°C	-40 to +80		
Max. winding temperature	°C	150		
Motor insulation class		A		
IP rating		IP40		
Slot pole pairs		6S4P		
Rotor magnet		BNM-8		
Control and power harness length	mm	205 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Shaft length from flange	mm	13		●
Shaft diameter Ø	mm	3.17		
Housing material		SECD-0 1.0T		
Shaft material		S70C		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

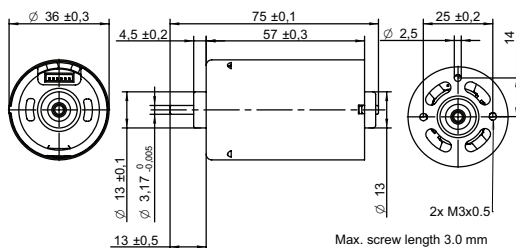
MOTOR DATA DIAGRAM 24V



BT3657-I | Ø 36 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT3657 - VOLTAGE - INTEGRATED DRIVER

Example: BT3657-12-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	270	140	
Nominal speed	rpm	5200	5400	●
Nominal torque	mNm	29	32	
Nominal current	A	1.8	1.0	
Start/Stall torque	mNm	190	280	
Start/Stall current	A	10	7.4	
Max. efficiency	%	74	79	
Nominal power	W	16	18	
Terminal resistance	Ω	0.6	1.8	
Terminal inductance	mH	0.4	1.4	
Torque constant	mNm/A	19	38	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	180	170	
Rotor inertia	gcm ²	52~61	50~52	

MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0.72	0.58
Bearing radial clearance	μm	12	
Max. axial load (dynamic)	N	4.9	
Max. force for press fits (static)	N	13	

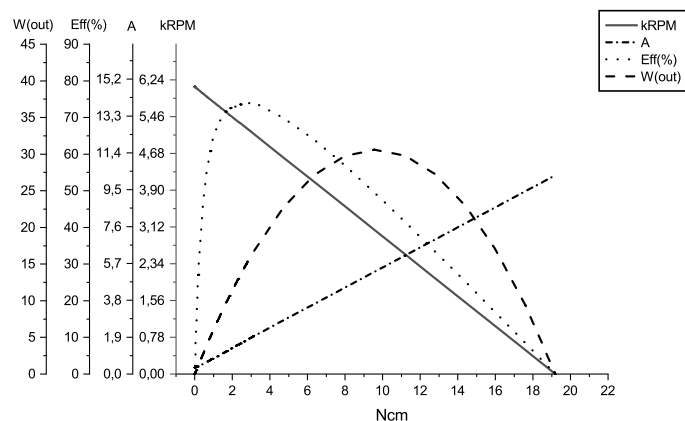
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		2		
Number of phases		3		
Weight of motor	g	230	230	
Typical noise level	dBA	36	36	
Ambient temperature	°C	-40 to +80		
Max. winding temperature	°C	150		
Motor insulation class		A		
IP rating		IP40		
Slot pole pairs		6S4P		
Rotor magnet		BNM-8		
Control and power harness length	mm	205 ± 10		●
Control and power harness end connector		A1501H00-6P		●
Control and power harness		UL1007 26AWG 300V 80°C		●
Shaft length from flange	mm	13		●
Shaft diameter Ø	mm	3.17		
Housing material		SECD-0 1.0T		
Shaft material		S70C		
Magnet material		Bonding NdFeB		
Rotor balancing grade		G6.3		
Service life	hrs	5000		
Manufacturing standard		ISO9001 TS16949		

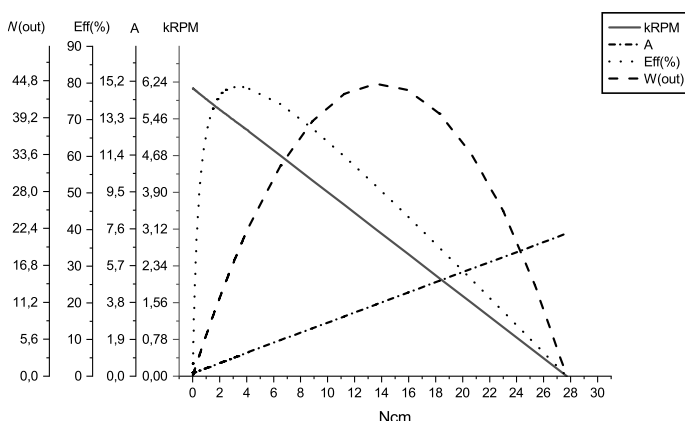
CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	
Blue	PWM	Speed control. PWM 20 kHz 5V. Full speed, connects to GND. PWM, HI/LO, 0/100	
White	Enable	Enable control. Open: motor runs Connect to GND: motor stops	

MOTOR DATA DIAGRAM 12V



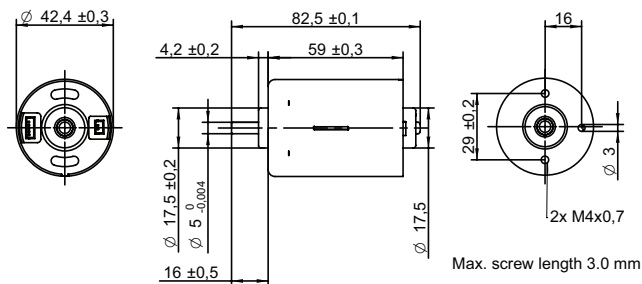
MOTOR DATA DIAGRAM 24V



BT4259-I | Ø 42 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



DRAWING (mm)



PHOTO



MODEL NAME DESIGNATION

BT4259 - VOLTAGE - INTEGRATED DRIVER

Example: BT4259-12-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	510	290	
Nominal speed	rpm	4900	5300	●
Nominal torque	mNm	52	77	
Nominal current	A	3.3	2.5	
Start/Stall torque	mNm	360	580	
Start/Stall current	A	18	16	
Max. efficiency	%	70	75	
Nominal power	W	27	43	
Terminal resistance	Ω	0.4	0.9	
Terminal inductance	mH	0.2	0.6	
Torque constant	mNm/A	21	38	
Speed constant	rpm/V	500	250	
Speed/ torque gradient	rpm/mNm	95	69	
Rotor inertia	gcm ²	120~146	130~148	

CABLE AND PIN CONFIGURATION INTERNAL DRIVER

			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	

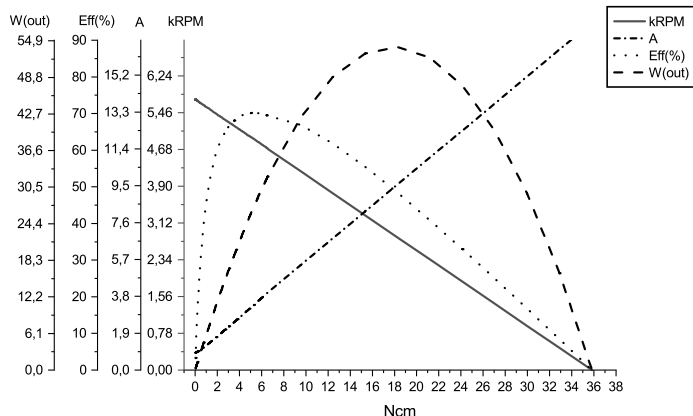
OTHER SPECIFICATIONS

		12V	24V	C
Number of pole pairs		3		
Number of phases		3		
Weight of motor	g	340	350	
Typical noise level	dBA	43	42	
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	221 ± 10	●
Control harness connector		JST:ZHR-5		●
Control harness		UL10368 26AWG 300V 105°C		●
Power harness		UL3266 20AWG 300V 125°C		●
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		

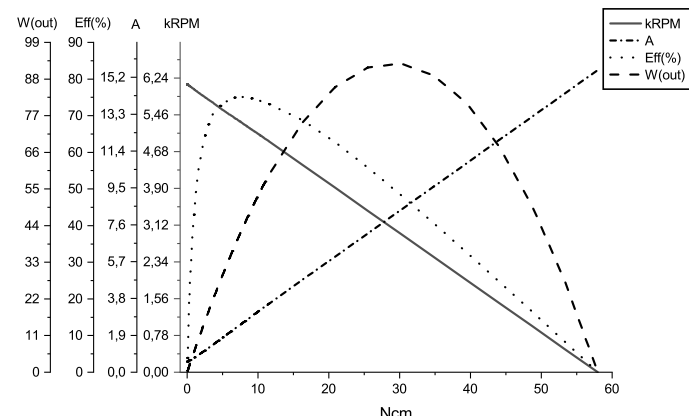
MECHANICAL DATA

			C
Bearing type		Ball bearing	●
Axial play	mm	0.61	0.58
Bearing radial clearance	µm	13	
Max. axial load (dynamic)	N	7.1	

MOTOR DATA DIAGRAM 12V



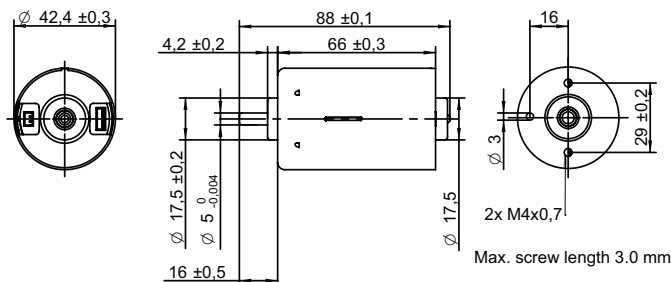
MOTOR DATA DIAGRAM 24V



BT4266-I | Ø 42 mm | BRUSHLESS DC MOTOR WITH INTERNAL DRIVER



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	

CABLE AND PIN CONFIGURATION INTERNAL DRIVER

		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

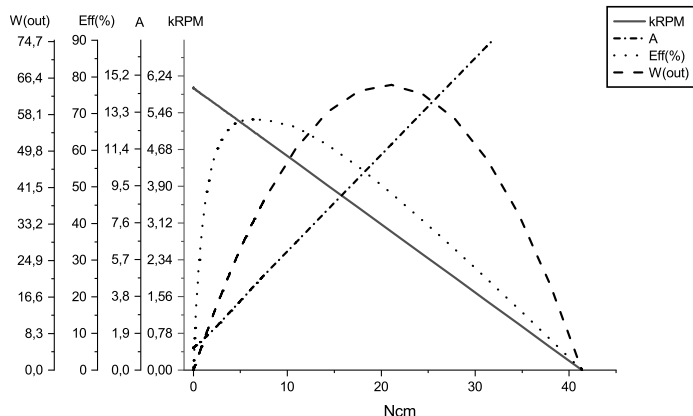
OTHER SPECIFICATIONS

		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		

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

