

## B4240 BRUSHLESS DC MOTOR

Transmotec brushless dc motors covers a large range of miniature sized motors to heavy duty models. The designs include both round and square shaped motor bodies.

All motors include hall-effect sensors for phase shift commutation.

Standard motors are kept in stock for quick delivery and customized motors are offered upon request. Customizations and configurations are typically different windings, cable and connections, shaft outputs, assembly to gear heads and encoders etc.

Additional motor data is available from our web site data base as well as CAD drawings. For further information and requests, you are welcome to contact our professional sales and engineering staff.

### FEATURES

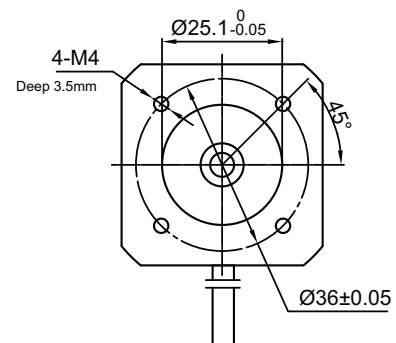
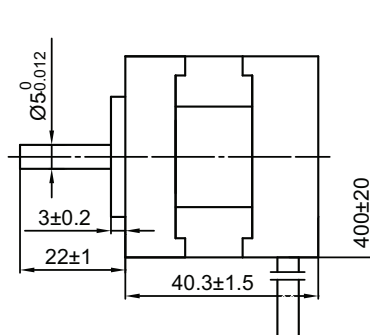
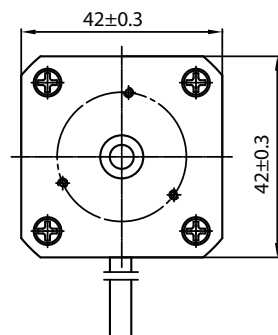
- Large range of miniature motors to heavy duty models
- Round and square shaped motor bodies
- Integral hall-effect sensors
- Quick delivery from stock
- Customisations are welcome



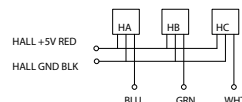
### BRUSHLESS MOTOR DATA

	Units	B4240-12	B4240-24		Units	B4240
Nominal voltage	V	12	24	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	26	26	Max. permissible winding temperature	°C	120
No load speed	rpm	6800	6500	Max. permissible speed	rpm	20000
No load current	mA	600	500	Axial play at axial load < 3,5 N	mm	0,1
Nominal speed	rpm	4000	4000	Axial play at axial load > 3,5 N	mm	0,6
Nominal torque (max. continuous torque)	mNm	75	75	Radial play	mm@g	0.025@460
Nominal current (max. continuous current)	A	3,9	2	Max. axial load (dynamic)	N	10
Stall torque	mNm	200	240	Max. force for press fits (static)	N	200
Starting current	A	8,4	6,8	Max. force for press fits (static, shaft supported)	N	200
Max. Efficiency	%	59,1	64,5	Max. radial loading, 10 mm from flange	N	28
Terminal resistance phase to phase	Ω	0,42	1,5	Number of pole pairs		4
Terminal inductance phase to phase	mH	0,53	2,1	Number of phases		3
Torque constant	mNm / A	0,15	35	Weight of motor	g	300
Speed constant	rpm / V	791	408			
Mechanical time constant	ms	9	9,01			
Rotor inertia	gcm <sup>2</sup>	24	24			

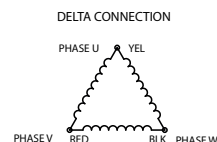
### APPEARANCE SIZE



HALL CONNECTING



THREE-PHASE CONNECTING



## B4260 BRUSHLESS DC MOTOR

Transmotec brushless dc motors covers a large range of miniature sized motors to heavy duty models. The designs include both round and square shaped motor bodies. All motors include hall-effect sensors for phase shift commutation. Standard motors are kept in stock for quick delivery and customized motors are offered upon request. Customizations and configurations are typically different windings, cable and connections, shaft outputs, assembly to gear heads and encoders etc. Additional motor data is available from our web site data base as well as CAD drawings. For further information and requests, you are welcome to contact our professional sales and engineering staff.

### FEATURES

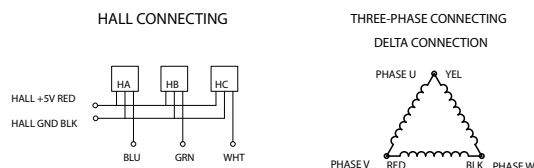
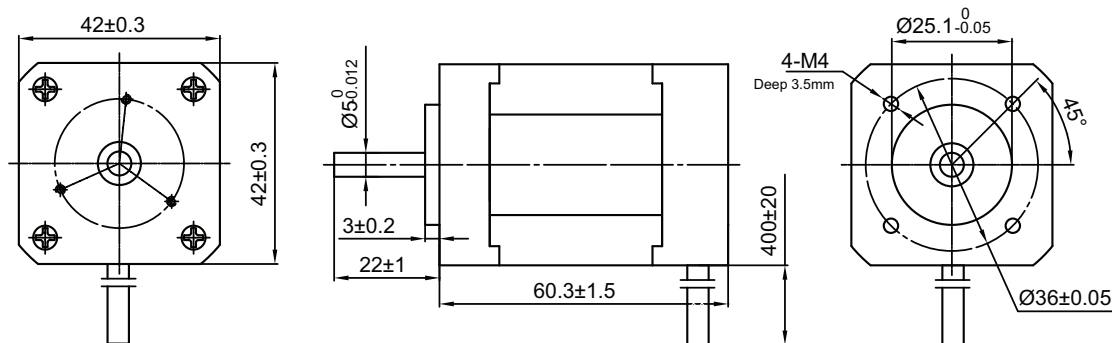
- Large range of miniature motors to heavy duty models
- Round and square shaped motor bodies
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### BRUSHLESS MOTOR DATA

	Units	B4260-12	B4260-24		Units	B4260
Nominal voltage	V	12	24	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	52	52	Max. permissible winding temperature	°C	120
No load speed	rpm	6200	6000	Max. permissible speed	rpm	20000
No load current	mA	600	500	Axial play at axial load < 3,5 N	mm	0,1
Nominal speed	rpm	4000	4000	Axial play at axial load > 3,5 N	mm	0,6
Nominal torque (max. continuous torque)	mNm	150	150	Radial play	mm@g	0.025@460
Nominal current (max. continuous current)	A	6,2	3,2	Max. axial load (dynamic)	N	10
Stall torque	mNm	350	380	Max. force for press fits (static)	N	200
Starting current	A	16,8	12,8	Max. force for press fits (static, shaft supported)	N	200
Max. Efficiency	%	67,8	72,3	Max. radial loading, 10 mm from flange	N	28
Terminal resistance phase to phase	Ω	0,2	0,8	Number of pole pairs		4
Terminal inductance phase to phase	mH	0,24	1,2	Number of phases		3
Torque constant	mNm / A	0,16	35,5	Weight of motor	g	450
Speed constant	rpm / V	855	369			
Mechanical time constant	ms	7,8	7,85			
Rotor inertia	gcm <sup>2</sup>	48	48			

### APPEARANCE SIZE



## B4280 BRUSHLESS DC MOTOR

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### FEATURES

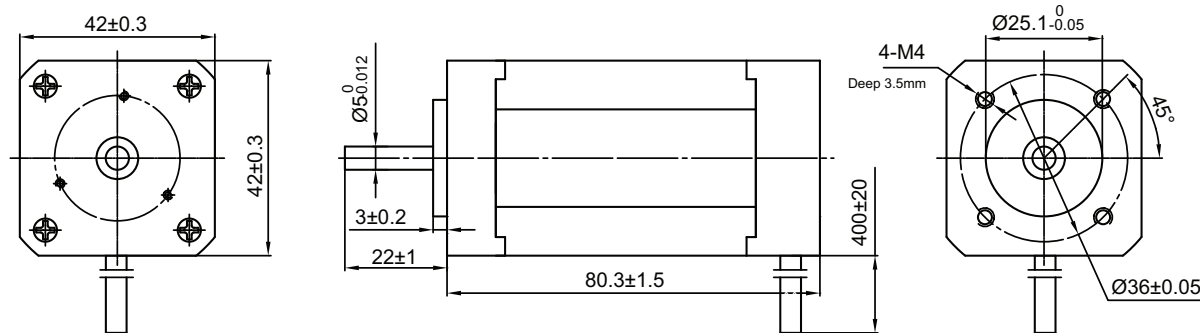
- Large range of miniature motors to heavy duty models
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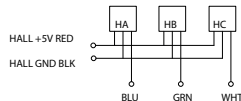
### BRUSHLESS MOTOR DATA

	Units	B4280-24		Units	B4280
Nominal voltage	V	24	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	78	Max. permissible winding temperature	°C	120
No load speed	rpm	6100	Max. permissible speed	rpm	20000
No load current	mA	500	Axial play at axial load < 3,5 N	mm	0,1
Nominal speed	rpm	4000	Axial play at axial load > 3,5 N	mm	0,6
Nominal torque (max. continuous torque)	mNm	220	Max. axial load (dynamic)	N	10
Nominal current (max. continuous current)	A	4,7	Max. force for press fits (static)	N	200
Stall torque	mNm	560	Max. force for press fits (static, shaft supported)	N	200
Starting current	A	19,8	Max. radial loading, 10 mm from flange	N	28
Max. Efficiency	%	76,8	Number of pole pairs		4
Terminal resistance phase to phase	Ω	0,43	Number of phases		3
Terminal inductance phase to phase	mH	0,71	Weight of motor	g	0,65
Torque constant	mNm / A	38			
Speed constant	rpm / V	365			
Mechanical time constant	ms	6,87			
Rotor inertia	gcm <sup>2</sup>	72			

### APPEARANCE SIZE

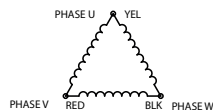


#### HALL CONNECTING



#### THREE-PHASE CONNECTING

##### DELTA CONNECTION



## B42100 BRUSHLESS DC MOTOR

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### FEATURES

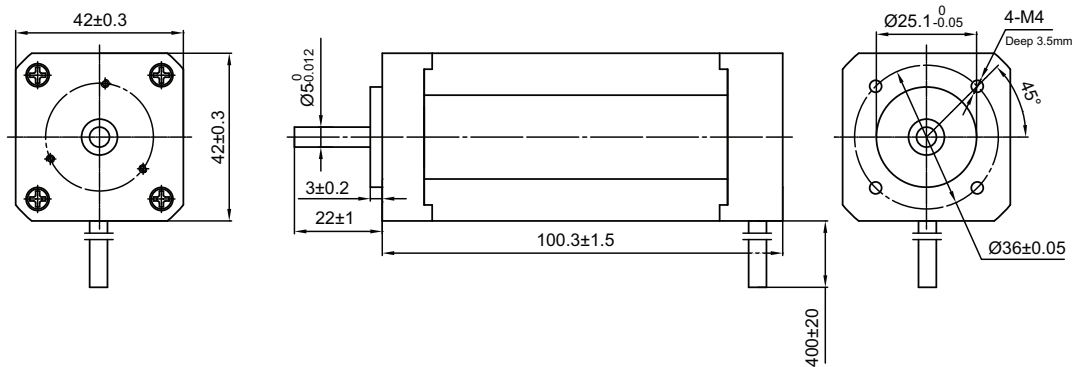
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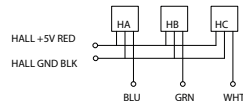
### BRUSHLESS MOTOR DATA

	Units	B42100-24		Units	B42100
Nominal voltage	V	24	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	105	Max. permissible winding temperature	°C	120
No load speed	rpm	6300	Max. permissible speed	rpm	20000
No load current	mA	500	Axial play at axial load < 3,5 N	mm	0,1
Nominal speed	rpm	4000	Axial play at axial load > 3,5 N	mm	0,6
Nominal torque (max. continuous torque)	mNm	300	Max. axial load (dynamic)	N	10
Nominal current (max. continuous current)	A	6,5	Max. force for press fits (static)	N	200
Stall torque	mNm	750	Max. force for press fits (static, shaft supported)	N	200
Starting current	A	25,4	Max. radial loading, 10 mm from flange	N	28
Max. Efficiency	%	77,4	Number of pole pairs		4
Terminal resistance phase to phase	Ω	0,3	Number of phases		3
Terminal inductance phase to phase	mH	0,49	Weight of motor	g	800
Torque constant	mNm / A	35,5			
Speed constant	rpm / V	382			
Mechanical time constant	ms	7,53			
Rotor inertia	gcm <sup>2</sup>	96			

### APPEARANCE SIZE

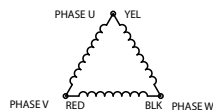


#### HALL CONNECTING



#### THREE-PHASE CONNECTING

##### DELTA CONNECTION



## B5755 BRUSHLESS DC MOTOR

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### FEATURES

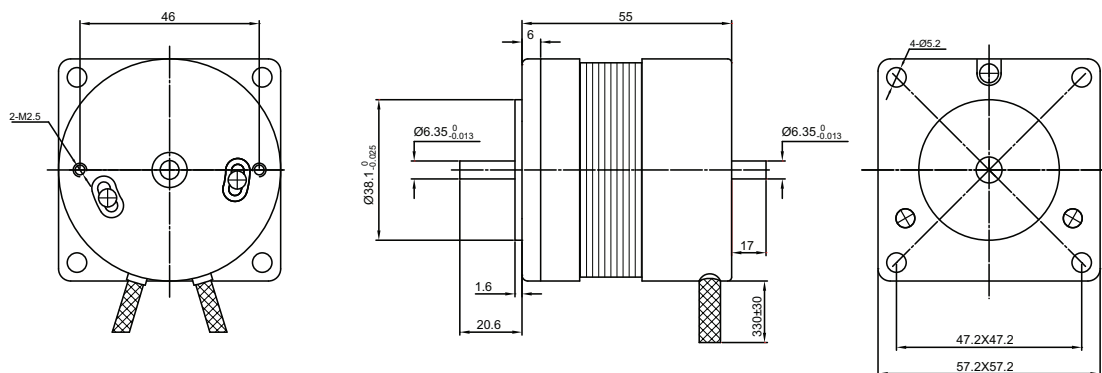
- Large range of miniature motors to heavy duty models
- Round and square shaped motor bodies
- Integral hall-effect sensors
- Quick delivery from stock
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### BRUSHLESS MOTOR DATA

	Units	B5755-24		Units	B5755
Nominal voltage	V	24	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	52	Max. permissible winding temperature	°C	130
No load speed	rpm	5400	Max. permissible speed	rpm	13000
No load current	mA	500	Radial play	mm@g	0.025@460
Nominal speed	rpm	4000	Max. axial load (dynamic)	N	15
Nominal torque (max. continuous torque)	mNm	110	Max. radial loading, 10 mm from flange	N	15
Nominal current (max. continuous current)	A	2.17	Number of pole pairs		2
Stall torque	mNm	330	Number of phases		3
Max. Efficiency	%	75	Weight of motor	g	500
Terminal resistance phase to phase	Ω	0.82			
Terminal inductance phase to phase	mH	2.3			
Torque constant	mNm / A	38.7			
Rotor inertia	gcm <sup>2</sup>	75			

### APPEARANCE SIZE



## B8672 BRUSHLESS DC MOTORS

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### FEATURES

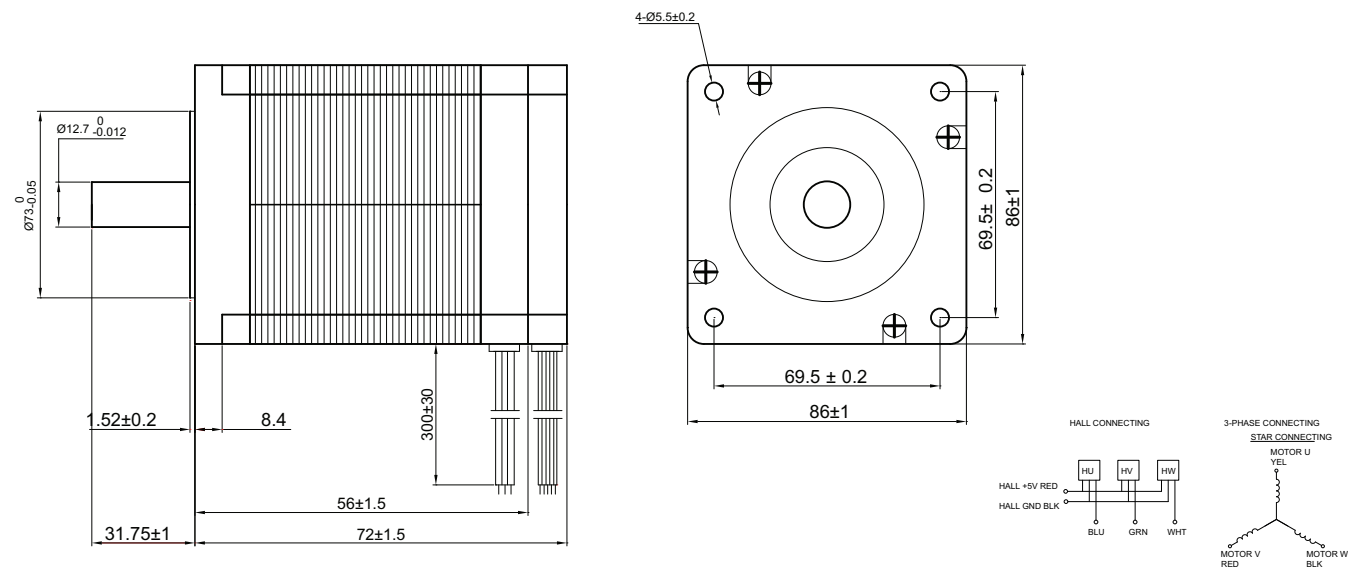
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### BRUSHLESS MOTOR DATA

	Units	B8672-12	B8672-24	B8672-48		Units	B8672		
Nominal voltage	V	12	24	48	Nominal voltage	V	12	24	48
Nominal power	W	117	112	117	Ambient temperature	°C	-15°C ----- +40°C		
No load speed	rpm	4500	3500	3700	Max. permissible winding temperature	°C	140	140	120
No load current	mA	5500	1400	600	Max. permissible speed	rpm	5000		
Nominal speed	rpm	3201	2994	3102	Axial play at axial load < 3,5 N	mm	0,1		
Nominal torque (max. continuous torque)	Nm	0.349	0.357	0.359	Axial play at axial load > 3,5 N	mm	0,6		
Nominal current (max. continuous current)	A	14.95	47	19.4	Radial play	mm@g	0,02		
Stall torque	Nm	1.2	2.45	2.2	Max. axial load (dynamic)	N	60		
Starting current	A	49.5	47	19.4	Max. force for press fits (static)	N	560		
Max. Efficiency	%	66.6	63.2	74.3	Max. force for press fits (static, shaft supported)	N	2000		
Terminal resistance phase to phase	Ω	0.066	0.21	0.98	Max. radial loading, 10 mm from flange	N	220		
Terminal inductance phase to phase	mH	0.12	0.51	2.58	Number of pole pairs		4		
Torque constant	Nm / A	0.0248	0.053	0.114	Number of phases		3		
Speed constant	rpm / V	375	146	77	Weight of motor	g	1600		
Speed / torque gradient	rpm / Nm	3750	1428	1682					
Mechanical time constant	ms	16	6.1	7.2					
Rotor inertia	gcm <sup>2</sup>	400	400	400					

### APPEARANCE SIZE



## B8686 BRUSHLESS DC MOTORS

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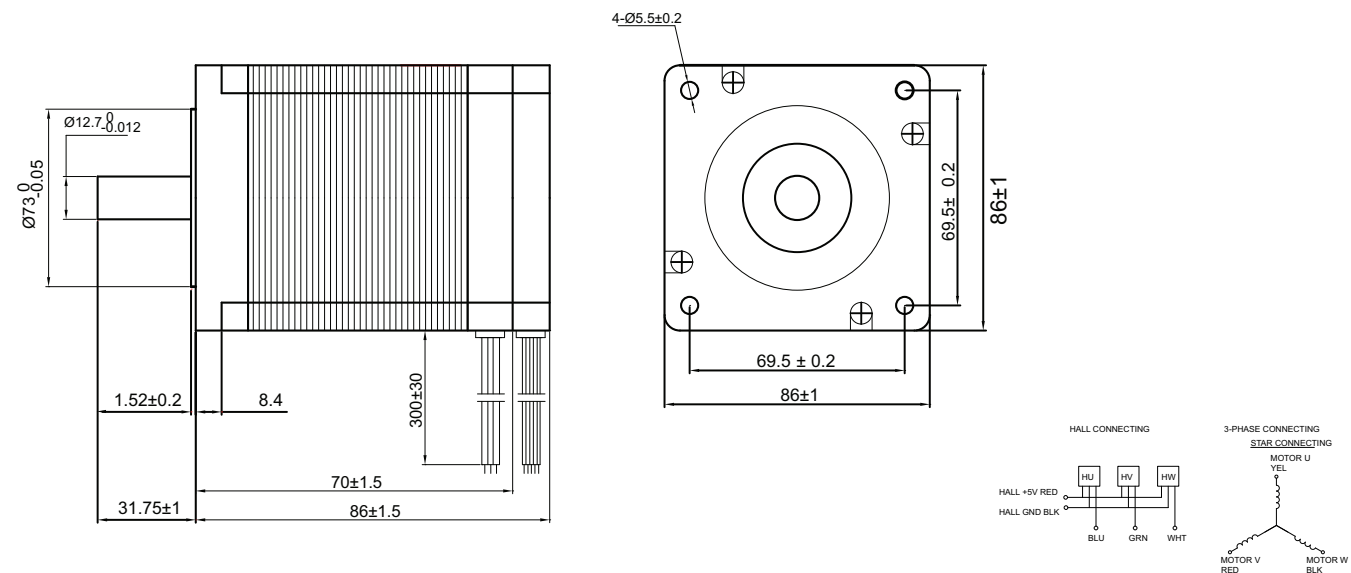
- Large range of miniature motors to heavy duty models
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### BRUSHLESS MOTOR DATA

	Units	B8686-12	B8686-24	B8686-48		Units	B8686		
Nominal voltage	V	12	24	48	Nominal voltage	V	12	24	48
Nominal power	W	116	225	228	Ambient temperature	°C	-15°C ----- +40°C		
No load speed	rpm	2600	3900	3750	Max. permissible winding temperature	°C	140	140	120
No load current	mA	1800	1400	950	Max. permissible speed	rpm	5000		
Nominal speed	rpm	1817	3062	3107	Axial play at axial load < 3,5 N	mm	0,1		
Nominal torque (max. continuous torque)	Nm	0.609	0.703	0.702	Axial play at axial load > 3,5 N	mm	0,6		
Nominal current (max. continuous current)	A	14.43	13.76	6.61	Radial play	mm@g	0,02		
Stall torque	Nm	2	3.2	4	Max. axial load (dynamic)	N	60		
Starting current	A	51	56	34	Max. force for press fits (static)	N	560		
Max. Efficiency	%	75	70	73	Max. force for press fits (static, shaft supported)	N	2000		
Terminal resistance phase to phase	Ω	0.056	0.091	0.34	Max. radial loading, 10 mm from flange	N	220		
Terminal inductance phase to phase	mH	0.127	0.23	1	Number of pole pairs		4		
Torque constant	Nm / A	0.04	0.059	0.12	Number of phases		3		
Speed constant	rpm / V	217	162	78	Weight of motor	g	2120		
Speed / torque gradient	rpm / Nm	1300	1218	948					
Mechanical time constant	ms	11.1	12.7	8					
Rotor inertia	gcm <sup>2</sup>	800	800	800					

### APPEARANCE SIZE



## B86112 BRUSHLESS DC MOTORS

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### FEATURES

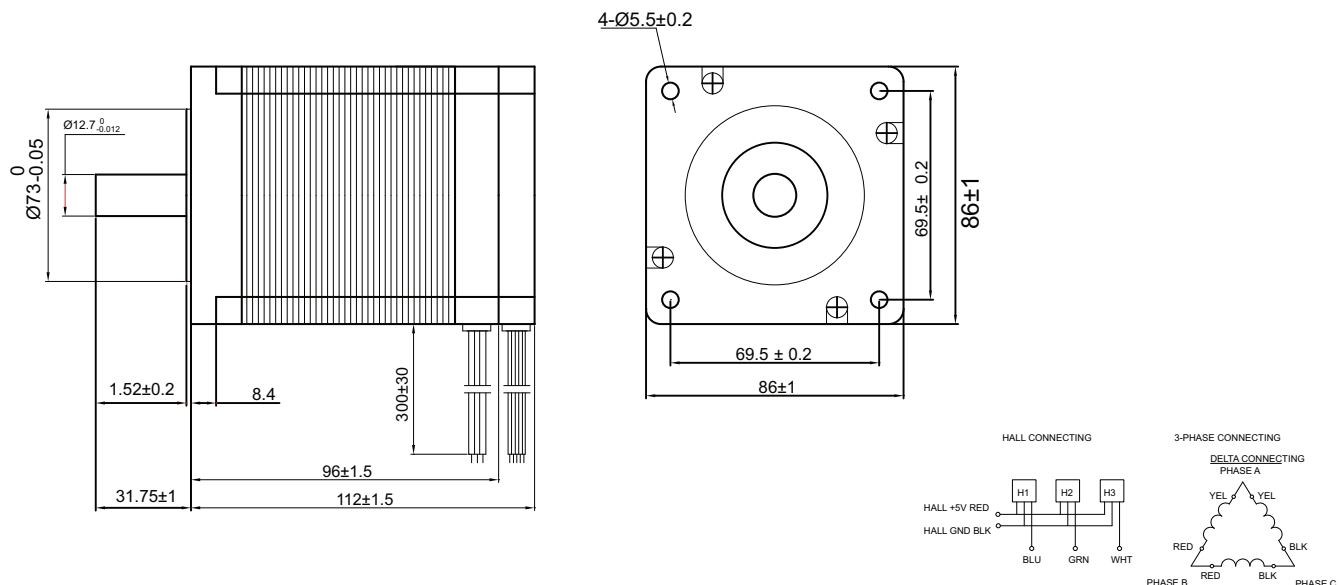
- Large range of miniature motors to heavy duty models
- Round and square shaped motor bodies
- Integral hall-effect sensors
- Quick delivery from stock
- Customisations are welcome



### BRUSHLESS MOTOR DATA

	Units	B86112-24	B86112-48		Units	B86112
Nominal voltage	V	24	48	Nominal voltage	W	24   48
Nominal power	W	393	436	Ambient temperature	°C	-15°C ----- +40°C
No load speed	rpm	3870	3600	Max. permissible winding temperature	°C	140   120
No load current	mA	2400	1200	Max. permissible speed	rpm	5000
Nominal speed	rpm	3126	2975	Axial play at axial load < 3,5 N	mm	0,1
Nominal torque (max. continuous torque)	Nm	1.2	1.4	Axial play at axial load > 3,5 N	mm	0,6
Nominal current (max. continuous current)	A	23	11.8	Radial play	mm@g	0,02
Stall torque	Nm	6.2	8	Max. axial load (dynamic)	N	60
Starting current	A	108	62	Max. force for press fits (static)	N	560
Max. Efficiency	%	74.1	77.6	Max. force for press fits (static, shaft supported)	N	2000
Terminal resistance phase to phase	Ω	0.04	0.16	Max. radial loading, 10 mm from flange	N	220
Terminal inductance phase to phase	mH	0.096	0.5	Number of pole pairs		4
Torque constant	Nm / A	0.0586	0.13	Number of phases		3
Speed constant	rpm / V	160	75	Weight of motor	g	3150
Speed / torque gradient	rpm / Nm	624	450			
Mechanical time constant	ms	10.6	7.7			
Rotor inertia	gcm <sup>2</sup>	1600	1600			

### APPEARANCE SIZE



## B86139 BRUSHLESS DC MOTORS

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### FEATURES

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- Customisations are welcome



### BRUSHLESS MOTOR DATA

B86139-48			B86139		
Nominal voltage	V	48	Ambient temperature	°C	-15°C ----- +40°C
Nominal power	W	657	Max. permissible winding temperature	°C	120
No load speed	rpm	3600	Max. permissible speed	rpm	5000
No load current	mA	1900	Axial play at axial load < 3,5 N	mm	0,1
Nominal speed	rpm	2990	Axial play at axial load > 3,5 N	mm	0,6
Nominal torque (max. continuous torque)	mNm	2,098	Radial play	mm@g	0,02
Nominal current (max. continuous current)	A	16,5	Max. axial load (dynamic)	N	60
Stall torque	mNm	18500	Max. force for press fits (static)	N	560
Starting current	A	138	Max. force for press fits (static, shaft supported)	N	2000
Max. Efficiency	%	84	Max. radial loading, 10 mm from flange	N	220
Terminal resistance phase to phase	Ω	0,07	Number of pole pairs		4
Terminal inductance phase to phase	mH	0,103	Number of phases		3
Torque constant	mNm / A	112	Weight of motor	g	4100
Speed constant	rpm / V	110			
Speed / torque gradient	rpm / mNm	0,21			
Mechanical time constant	ms	4,83			
Rotor inertia	gcm <sup>2</sup>	2400			

### APPEARANCE SIZE

