

MINIMOTOR - BS - BRUSHLESS MOTOR

BS 35/30 RC
230V 4000rpm 0.075Nm 32W

- 4 pole motor with NdFeB magnets
- 4000 rpm maximum speed
- Up to 2.1Nm rated torque
- Feedback via 2 pole resolver
- IP65



PRODUCT DESCRIPTION

BRUSHLESS MOTOR

4 poles sinusoidal brushless motor, totally enclosed. Rotor with NdFeB magnets. Safety circuit breaker. Winding class F. IP65 protection according to CEI EN 60529 standards. Feedback with 2 pole resolver.

Reduced clearance bearings with special grease for high temperatures.

On request a 24 Vdc NC brake (normally closed) with permanent magnets may be supplied. It is identified by the letter K (BSK).

Please see PDF document for full technical details.

[Please click here for 2D and 3D drawings](#)

TECHNICAL DATA

AC drive voltage	230 V
Ambient temperature	0-40°C
Current at rated speed	0.22 A rms
Current at rated speed, flanged	0.22 A rms
Current at rated speed, free air	0.17 A rms
Current max	0.65 A
Current with rotor blocked, free air	0.17 A rms
Max. torque	0.25
Maximum current	0.65 A rms

Nominal speed	4000 rpm
Output power	32 W
Phase inductance	207 mH
Phase resistance at 20C	156 Ω
Phase voltage constant	0.155 V x s
Rated power, flanged	32 W
Rated power, free air	24 A rms
Rated speed	4000 rpm
Rated torque	0.075Nm
Roter inertia	3.94 Kg/mm ²
Thermal cutout switch type	PTC
Thermal cutout temperature	140 °C
Torque at rated speed, flanged	0.075
Torque at rated speed, free air	0.057
Torque constant	0.389 Nm/A
Torque with rotor blocked	0.085
Torque with rotor blocked, flanged	0.085
Torque with rotor blocked, free air	0.065

RC

(TT) Resolver - connectore
 (ES) Resolver - connector
 (BD) Resolver - Steckverbinder
 (FD) Resolver - connector
 (ES) Resolver - connector

BS... RC

Type Type	A	B	C	C1	D	E	F	G	H	L	L1	M	M1	M2	N	P	Q	R	S	T	V	Power Output Power Per kg
BS 35/50 RC	1,5	36,5	12	27	5	15	22	35	21	122	107	68	72	25	42,5	-	-	4	15	3,5	0,5	0,50
BS 35/60 RC	1,5	36,5	12	27	5	15	22	35	21	152	137	68	72	25	42,5	-	-	4	15	3,5	0,5	0,72
BS 45/50 RC	2	47	12,5	27	6	20,5	25	45	21	139	116,5	72	72	25	53	-	-	5	20	4,3	0,5	0,76
BS 45/70 RC	2	47	12,5	27	6	20,5	25	45	21	174	153,5	72	72	25	53	-	-	5	20	4,3	0,5	1,09
BS 55/50 RC	2,5	42,5	12,5	27	9	20	34	55	21	150	130,5	72	72	25	65,5	10,2	3	6	23	5,5	1	1,31
BS 55/100 RC	2,5	42,5	12,5	27	9	20	34	55	21	200	180,5	72	72	25	65,5	10,2	3	6	23	5,5	1	2,07
BS 65/50 RC	3	42,5	12,5	22	14	30	45	80	25	173	143	85	68	18	98	16	5	8	30	6,5	2	2,6
BS 65/100 RC	3	42,5	12,5	22	14	30	45	80	25	223	193	85	68	18	98	16	5	8	30	6,5	2	4,1

2D model selection

Electric motors
 Flanged motor
 Worm gearmotors
 Brushless servomotors
 Clean products

Please see product description above for 2D and 3D drawings

RC

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