

Brushless DC-Motors

with integrated Drive Electronics

3,2 mNm

Series 1935 ... BRE

	1935 S	006 BRE	009 BRE	012 BRE	
Nominal voltage ¹⁾	U_N	6	9	12	Volt
No-load speed	n_0	7 400	7 650	7 400	rpm
No-load current (with shaft \varnothing 3,0 mm)	I_0	0,050	0,035	0,027	A
Starting torque	M_A	2,9	4,0	4,4	mNm
Torque constant	k_M	6,32	9,74	13,70	mNm/A
Slope of n-M curve	$\Delta n/\Delta M$	1 470	1 140	1 110	rpm/mNm
Rotor inertia	J	8,1	8,1	8,1	gcm ²
Operating temperature range		0 ... + 70			°C
Shaft bearings		ball bearings, preloaded			
Shaft load max.:					
– shaft diameter		3			mm
– radial at 3 000 rpm (3 mm from mounting face)		10			N
– axial at 3 000 rpm		1			N
– axial at standstill		150			N
Shaft play:					
– radial	\perp	0,015			mm
– axial	\parallel	0			mm
Housing material		mounting face in aluminium, housing in plastic			
Weight		33			g
Direction of rotation		not reversible - clockwise rotation, viewed from the front face			
¹⁾ The supply voltage range for the integrated electronics is:		min. 4,5 ... max. 16			V DC

Recommended values - mathematically independent of each other

Speed range	n_e	1 600 – 10 000			rpm
Torque up to	$M_{e \max.}$	2,4	2,9	3,2	mNm
Current up to (thermal limits)	$I_{e \max.}$	0,50	0,40	0,33	A

