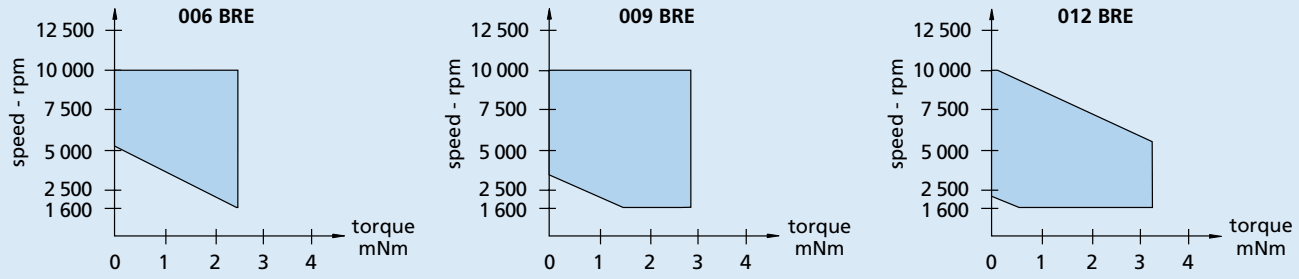
Brushless DC-Motors 3,2 mNm

with integrated Drive Electronics

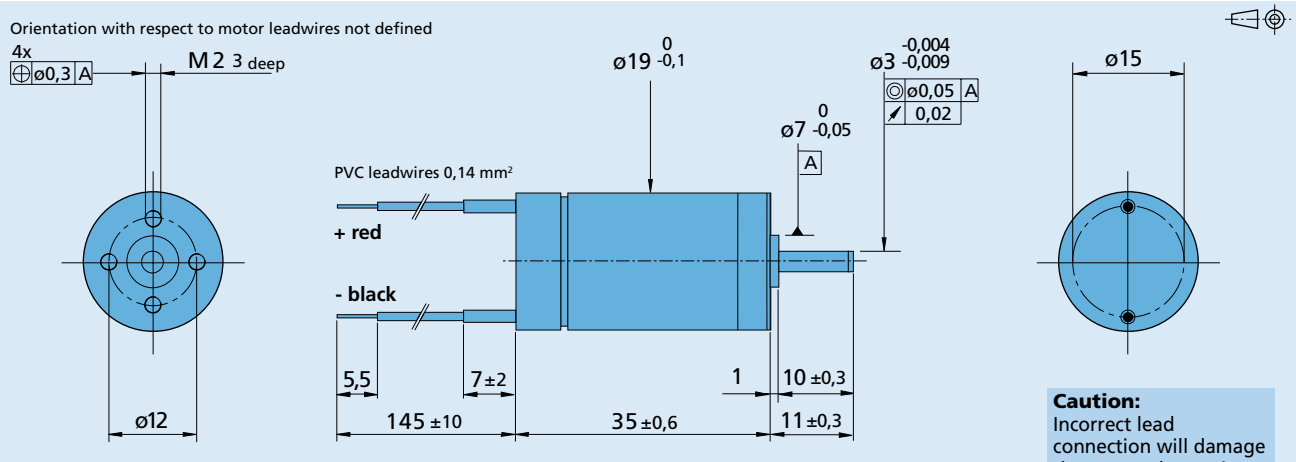
Series 1935 ... BRE

		1935 S	006 BRE	009 BRE	012 BRE	
Nominal voltage [1]	U_N		6	9	12	Volt
No-load speed	n_o		7 400	7 650	7 400	rpm
No-load current (with shaft ø 3,0 mm)	I_o		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	gcm²
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	≤	0,015				mm
– axial	=	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



Recommended speed - torque range



1935 S

Caution:
Incorrect lead connection will damage the motor electronics!