



The B10 combines enviable dimension/torque and dimension/power ratios with extremely compact and attractive design. With a 100 mm panel size, depending on the length of the stator pack, this model covers torque values from 3.3 Nm to 9 Nm.

The B10 is a sinusoidal current brushless 6-pole motor, the ideal solution for industrial automation applications that require the highest axial control performance.

Feedback is acquired by resolver or by encoder .

For feedback via absolute or incremental encoder, please contact technical department.

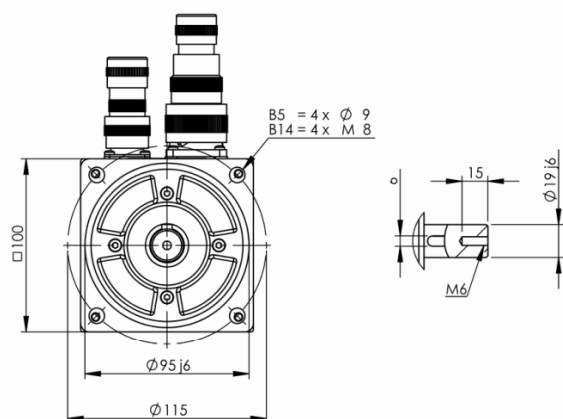
The B07 motor is controlled by drive supplied 3 x 380 ... 400VAC, 50 / 60Hz

Preset specific parameters for motors with winding at 230 V

Brake: Also available in a version with permanent magnet emergency brake and without backlash.



Brushless Motor		TYPE B10							
Size		B10S	B10N		B10M		B10L	B10G	
Drive operating voltage		230V	400V	230V	400V	230V	400V	400V	400V
Continuous stall torque	[Nm]	3.28	3.28	4.00	4.00	5.60	5.60	7.60	9.05
Rated speed	[RPM]	3000							
Power at rated speed	[W]	1234	1234	1193	1193	2054	2054	2553	2958
Peak torque with S.I.R.10% [Nm]	[Nm]	8.86	10.8		15.12		20.52	24.44	
Rotor Inertia	[mkgm ²]	0.195	0.26		0.32		0.45	0.58	
Rotor Inertia with brake	[mkgm ²]	0.30	0.36		0.42		0.56	0.69	
Weight	[kg]	5.30	6.00		7.40		9.50	11.70	
Weight with brake	[kg]	5.76	6.46		7.86		9.96	12.16	
E.M.F. constant 20°C	[Vs]	0.54	0.92	0.57	0.98	0.54	0.91	0.91	0.92
Torque constant	[Nm/Arms]	0.93	1.60	0.98	1.70	0.94	1.57	1.57	1.59
Winding Resistance 20°C	[Ohm]	5.96	17.00	2.4	8.7	2.10	5.86	3.42	2.25
Phase/phase inductance 50Hz	[mH]	19.30	51.40	9.3	31.6	7.89	22.00	14.40	10.90
Rated voltage 100°C	[V]	210	355	191	336	192	322	312	309
Continuous stall current	[A]	3.51	2.05	4.07	2.35	5.99	3.57	4.84	5.69
Current at rated speed	[A]	4.21	2.46	3.87	2.24	6.99	4.17	5.18	5.92
Peak current	[A]	9.49	5.54	11.0	6.36	16.16	9.64	13.08	15.35
Demagnetising current	[A _{pk}]	18.28	10.70	30.7	16.5	35.43	20.74	30.58	40.79
Length without brake	[mm]	182	182	203	203	223	223	263	303
Length with brake	[mm]	221	221	242	242	262	262	302	342
Brake parameters for B10									
Brake type		6	6	6	6	6	6	6	6
Stat. braking torque 100°C	[Nm]	8	8	8	8	8	8	8	8
Stat. braking torque 100°C	[W]	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
The data refer to tests conducted with motors at 3000 rpm and a 100°C DT temperature with an external temperature of 20°C.									
The B10 is a 6-pole motor with Class H winding insulation and Class F motor insulation, IP65 standard protection, IC0041 natural air cooling, and 130°C PTC trigger threshold									



SIZE	STANDARD	WITH BRAKE
S	182	223
N	203	242
M	223	262
L	263	303
G	303	374.5
REF.	L	LF

