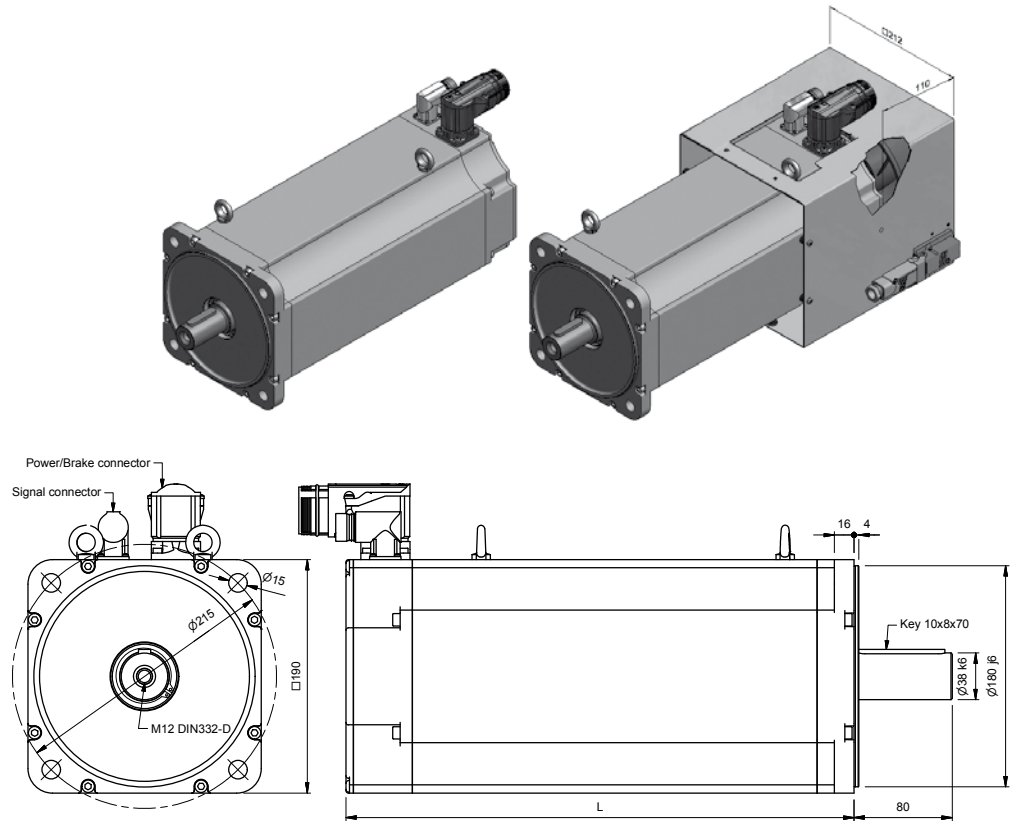


TYPE B100J - 10 POLES - 56 TO 80 Nm

FOR TYPE B100J - 10 POLES - 20 TO 42 Nm, PLEASE REFER TO PAGE 68

FOR MAINS VOLTAGE
400 V



MECHANICAL DATA

Type	Torque Nm	Length with RESOLVER (L)		Maximum Length with ENCODER (L)		Weight Kg	
		Without brake	With brake	Without brake	With brake	Without brake	With brake
B10.56J	56	308*	338*	336*	366*	38	43
B10.68J	68	369	399	369	399	47	52
B10.80J	80	414	444	414	444	55	60

*Motors with size 1.5 connectors have an additional length of 16mm

BRAKE DATA

Brake data	Symbol	Data	Unit
Holding torque 20°C	Mbr	48	Nm
Voltage	Ubr	24	Vdc+/- 10%
Resistance	Rbr	28.3	Ohm
Electrical Power	Pbr	20.4	W
Current	Ibr	0.85	Adc
Additional* Rotor Inertia	Jbr	32	kgcm ²
Opening (release) time	to max	155	ms
Closing (fall in) time	tc max	65	ms
Additional* Motor weight	mbr	3.8	kg

* Additional values are related to the motor data when the brake is mounted to the motor of the respective size, these values differ from the brake data in unmounted condition!

TYPE B100J - 10 POLES - 56 TO 80 Nm

FOR TYPE B100J - 10 POLES - 20 TO 42 Nm, PLEASE REFER TO PAGE 68

FOR MAINS VOLTAGE 400 V

Type	Stall torque ($\Delta t=105^{\circ}\text{C}$)	Rated speed	Rated power	Rated torque ($\Delta t=105^{\circ}\text{C}$)	Peak torque	Maximum speed	Moment of inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	Resistance phase to phase (20°C)	Inductance phase to phase	B.E.M.F. at rated speed	Stall current	Rated current	Power Connector Size
	M_0	n	P_n	M_n	M_{pk}	n_{max}	J	a_{pk}	T_{th}	ϑ_{max}	k_e	k_t	R_w	L_w	E_n	I_0	I_n	
	Nm	1/min	kW	Nm	Nm	rpm	10^{-4} Kg m^2	rad/sec ²	min	$^{\circ}\text{C}$	Vs	Nm/A	Ω	mH	Vrms	Arms	Arms	
2000 min⁻¹ - Self Cooled																		
B10.56J	56	2000	9.3	44.5	230	4000	102	22549	56	140	1.41	2.45	0.31	5.6	296	22.9	18.2	1
B10.68J	68	2000	10.7	50.9	322	4000	130	24769	65	140	1.41	2.45	0.23	4.7	296	27.8	20.8	1.5
B10.80J	80	2000	12.1	57.8	396	4000	158	25068	74	140	1.41	2.45	0.18	4.1	296	32.7	23.6	1.5
3000 min⁻¹ - Self Cooled																		
B10.56J	56	3000	11.6	37.0	230	4000	102	22549	56	140	0.94	1.63	0.15	2.7	296	34.4	22.7	1.5
B10.68J	68	3000	12.8	40.9	322	4000	130	24769	65	140	0.94	1.63	0.10	2.1	296	41.7	25.1	1.5
B10.80J	80	3000	13.8	44.0	396	4000	158	25068	74	140	0.94	1.63	0.08	1.8	295	49.1	27.0	1.5

Type	Stall torque ($\Delta t=105^{\circ}\text{C}$)	Rated speed	Rated power	Rated torque ($\Delta t=105^{\circ}\text{C}$)	Peak torque	Maximum speed	Moment of inertia	Peak torque acceleration	Thermal time constant	Thermal protection threshold	Voltage constant	Torque constant	Resistance phase to phase (20°C)	Inductance phase to phase	B.E.M.F. at rated speed	Stall current	Rated current	Power Connector Size
	M_0	n	P_n	M_n	M_{pk}	n_{max}	J	a_{pk}	T_{th}	ϑ_{max}	k_e	k_t	R_w	L_w	E_n	I_0	I_n	
	Nm	1/min	kW	Nm	Nm	rpm	10^{-4} Kg m^2	rad/sec ²	min	$^{\circ}\text{C}$	Vs	Nm/A	Ω	mH	Vrms	Arms	Arms	
2000 min⁻¹ - Air Cooled																		
B10.56J	74.5	2000	12.9	61.7	230	4000	102	22549	56	140	1.41	2.45	0.31	5.6	296	30.4	25.2	1.5
B10.68J	91.1	2000	14.8	70.8	322	4000	130	24769	65	140	1.41	2.45	0.23	4.7	296	37.2	28.9	1.5
B10.80J	108	2000	16.8	80.3	396	4000	158	25068	74	140	1.41	2.45	0.18	4.1	296	41.1	32.5	1.5
3000 min⁻¹ - Air Cooled																		
B10.56J	74.5	3000	16.3	51.8	230	4000	102	22549	56	140	0.94	1.63	0.15	2.7	296	45.7	31.8	1.5
B10.68J	91.1	3000	18.0	57.3	322	4000	130	24769	65	140	0.94	1.63	0.10	2.1	296	55.9	35.1	1.5
B10.80J	108	3000	19.4	61.6	396	4000	158	25068	74	140	0.94	1.63	0.08	1.8	295	66.3	37.8	1.5