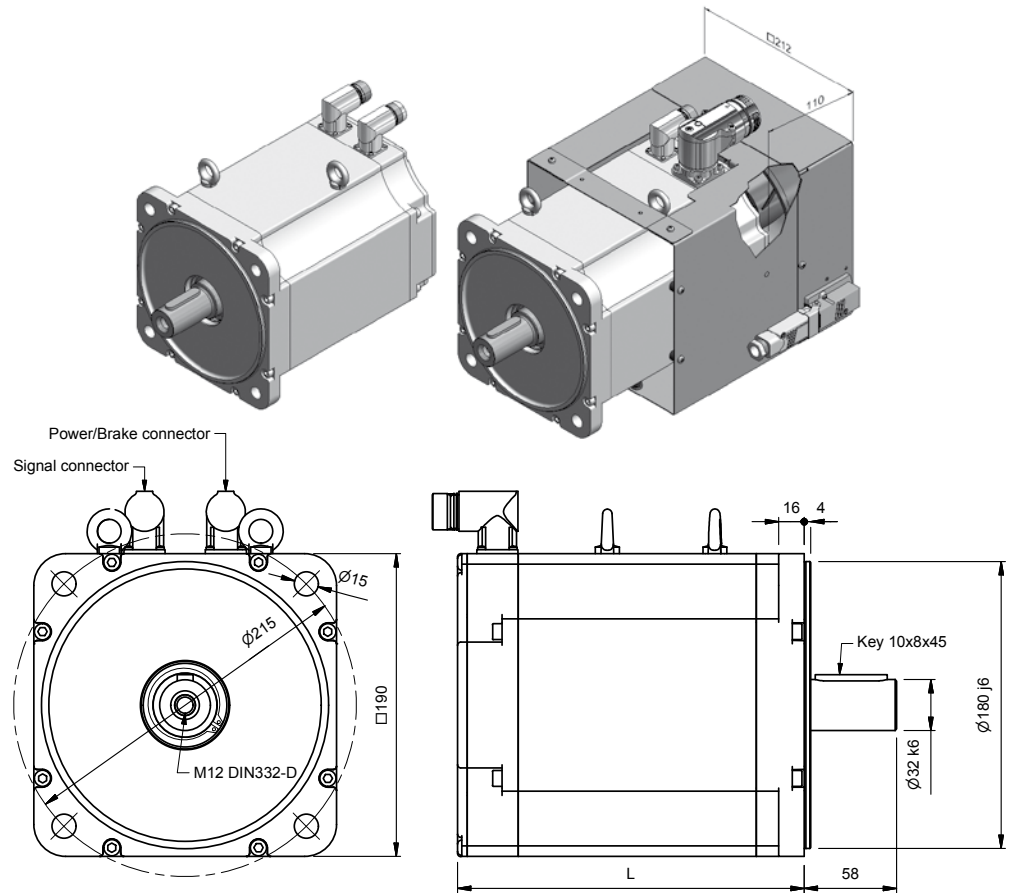


## TYPE B100J - 10 POLES - 20 TO 42 Nm

FOR TYPE B100J - 10 POLES - 56 TO 80 Nm, PLEASE REFER TO PAGE 72

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
B10.20J	20	195	225	223	253	17	22
B10.28J	28	218	248	246	276	21	26
B10.36J	36	240*	270*	268*	298*	25	30
B10.42J	42	263*	293*	291*	321*	30	35

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

### 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 <sup>2</sup>
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 - 20 TO 42 Nm

FOR TYPE B100J - 10 POLES - 56 TO 80 Nm, PLEASE REFER TO PAGE 72

## 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 ( $20^{\circ}\text{C}$ )	Inductance phase to phase	B.E.M.F. at rated speed	Stall current	Rated current	Power Connector Size
	$M_0$	$n$	$P_n$	$M_n$	$M_{pk}$	$n_{max}$	$J$	$a_{pk}$	$T_{th}$	$\vartheta_{max}$	$k_e$	$k_t$	$R_w$	$L_w$	$E_n$	$I_0$	$I_n$	
	Nm	1/min	kW	Nm	Nm	rpm	$10^{-4}\text{ Kg m}^2$	rad/sec <sup>2</sup>	min	$^{\circ}\text{C}$	Vs	Nm/A	$\Omega$	mH	Vrms	Arms	Arms	
<b>2000 min<sup>-1</sup> - Self Cooled</b>																		
B10.20J	20	2000	3.8	18.3	75	4000	33	22727	32	140	1.41	2.45	1.78	18.7	296	8.2	7.5	1
B10.28J	28	2000	5.2	24.7	108	4000	46	23478	37	140	1.41	2.45	0.90	14.2	296	11.4	10.1	1
B10.36J	36	2000	6.3	30.1	144	4000	60	24000	41	140	1.41	2.45	0.63	11.0	296	14.7	12.3	1
B10.42J	42	2000	7.6	36.1	180	4000	74	24324	46	140	1.41	2.45	0.50	8.8	296	17.2	14.8	1
<b>3000 min<sup>-1</sup> - Self Cooled</b>																		
B10.20J	20	3000	5.1	16.1	75	4000	33	22727	32	140	0.94	1.63	0.79	8.3	296	12.3	9.9	1
B10.28J	28	3000	6.9	22.0	108	4000	46	23478	37	140	0.94	1.63	0.40	6.3	296	17.2	13.5	1
B10.36J	36	3000	8.8	28.0	144	4000	60	24000	41	140	0.94	1.63	0.28	4.9	296	22.1	17.2	1
B10.42J	42	3000	10.2	32.5	180	4000	74	24324	46	140	0.94	1.63	0.22	3.9	296	25.8	19.9	1

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 ( $20^{\circ}\text{C}$ )	Inductance phase to phase	B.E.M.F. at rated speed	Stall current	Rated current	Power Connector Size
	$M_0$	$n$	$P_n$	$M_n$	$M_{pk}$	$n_{max}$	$J$	$a_{pk}$	$T_{th}$	$\vartheta_{max}$	$k_e$	$k_t$	$R_w$	$L_w$	$E_n$	$I_0$	$I_n$	
	Nm	1/min	kW	Nm	Nm	rpm	$10^{-4}\text{ Kg m}^2$	rad/sec <sup>2</sup>	min	$^{\circ}\text{C}$	Vs	Nm/A	$\Omega$	mH	Vrms	Arms	Arms	
<b>2000 min<sup>-1</sup> - Air Cooled</b>																		
B10.20J	26	2000	5.1	24.2	75	4000	33	22727	32	140	1.41	2.45	1.78	18.7	296	10.6	9.9	1
B10.28J	36.4	2000	6.9	33.1	108	4000	46	23478	37	140	1.41	2.45	0.90	14.2	296	14.9	13.5	1
B10.36J	47.2	2000	8.8	42.1	144	4000	60	24000	41	140	1.41	2.45	0.63	11.0	296	19.3	17.2	1
B10.42J	55.4	2000	10.5	50.0	180	4000	74	24324	46	140	1.41	2.45	0.50	8.8	296	22.7	19.9	1
<b>3000 min<sup>-1</sup> - Air Cooled</b>																		
B10.20J	26	3000	7.1	22.5	75	4000	33	22727	32	140	0.94	1.63	0.79	8.3	296	16.0	13.8	1
B10.28J	36.4	3000	9.7	30.8	108	4000	46	23478	37	140	0.94	1.63	0.40	6.3	296	22.3	18.9	1
B10.36J	47.2	3000	12.3	39.2	144	4000	60	24000	41	140	0.94	1.63	0.28	4.9	296	28.9	24.1	1.5
B10.42J	55.4	3000	14.3	45.5	180	4000	74	24324	46	140	0.94	1.63	0.22	3.9	296	34.0	27.9	1.5