

Brushless Servomotors Series EBL 28, 4 pole, $U_{cc}=320$ VDC

General description: Resolver feed back
 Shaft keyway DIN 6885
 Interconnectron connectors
 Compact design

Option: Failsafe holding brake

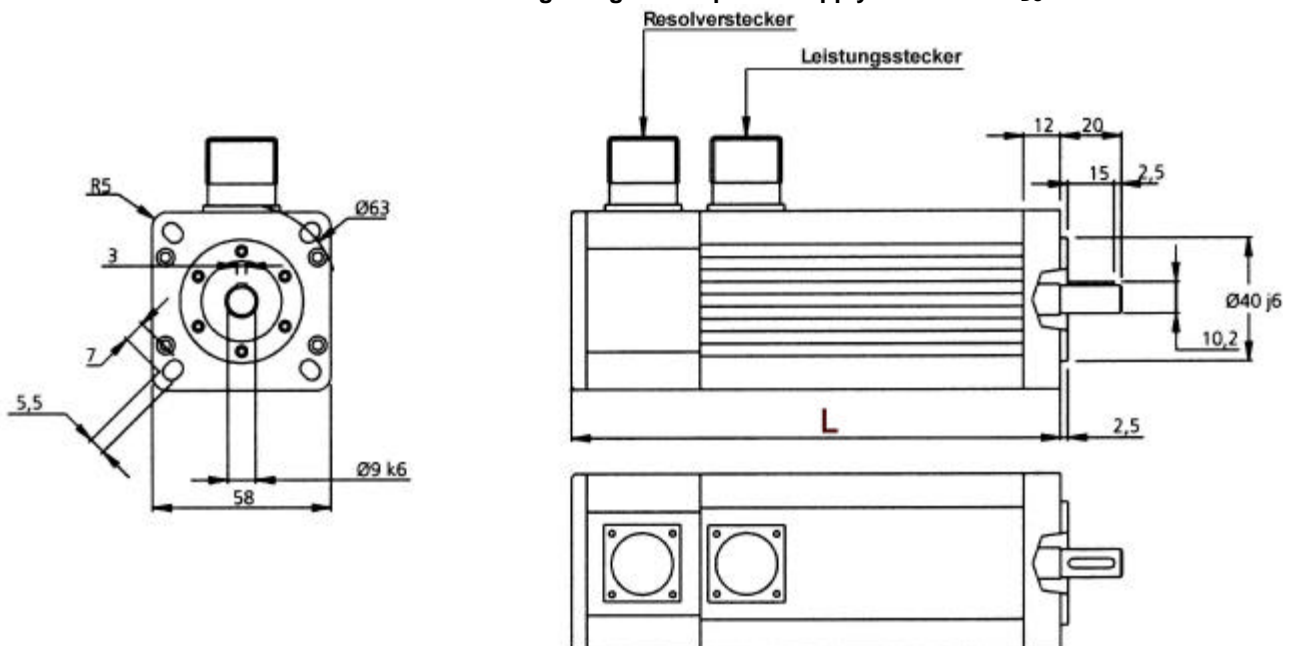
Parameter	EBL 28 -		0,6 - 3000	1,0 - 3000
Contin. Stall Torque	M_o	Nm	0,60	1,00
Contin. Stall Current	I_o	A	0,72	1,19
Rated Speed	n_N	min^{-1}	3000	3000
Rated Torque	M_N	Nm	0,57	0,95
Rated Current	I_N	A	0,68	1,13
Amps at Peak Torque	I_{max}	A	2,51	4,18
Power	P_n	kW	179	298
Peak Torque max.	M_{max}	Nm	2,10	3,50
Max. mechan. Speed	n_{max}	min^{-1}	6000	6000
Rotor Inertia	J	10^{-4}kgm^2	0,18	0,28
Thermal Time Constant	T_{th}	min	38	43
Thermal max.	T_{max}	$^{\circ}\text{C}$	140	140
Back EMF Constant	K_e	Vs	0,48	0,48
Torque Constant	K_M	Nm/A	0,84	0,84
Term.Resistance Ph-Ph	R_{Ph}	\dot{U}	56	22
Term.Inductance Ph-Ph	L_{Ph}	mH	84	37

Windings for different rated speed are available

Length (without Brake)	L	Mm	148	178
Length (with Brake)	L	mm	176	206
Motor Weigh (without Brake)	G	kg	1,90	2,30
Motor Weigh (with Brake)	G	kg	2,05	2,45

Electrical Connections: Interconnectron-connectors Rated Parameter: Acc. to. VDE 0530
 Thermal Protection: Thermal Switch, tripping out at 140°C Protection Class: IP 65

Motor Controller: Standard motorwinding designed for power supply $U_{CC} = 320$ V_{DC}



Brushless Servomotors Series EBL 56, 4 pole, $U_{cc}=320$ VDC

General description: Resolver feed back
Shaft keyway DIN 6885
Interconnectron connectors
Compact design

Option: Failsafe holding brake

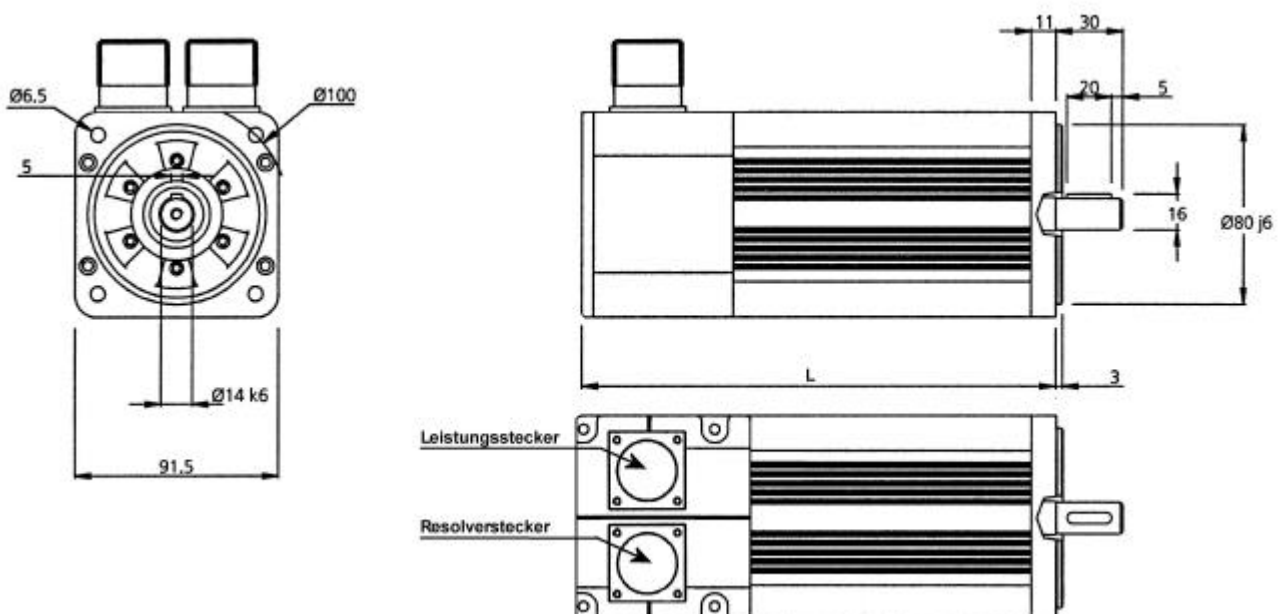
Parameter	EBL 56 -		2,5 - 3000
Contin. Stall Torque	M_o	Nm	2,80
Contin. Stall Current	I_o	A	3,30
Rated Speed	nN	min^{-1}	3000
Rated Torque	M_N	Nm	2,20
Rated Current	I_N	A	2,60
Amps at Peak Torque	I_{max}	A	7,90
Power	P_n	kW	690
Peak Torque max.	M_{max}	Nm	6,60
Max. mechan. Speed	n_{max}	min^{-1}	6000
Rotor Inertia	J	10^{-4}kgm^2	2,28
Thermal Time Constant	T_{th}	min	95
Thermal max.	T_{max}	$^{\circ}\text{C}$	140
Back EMF Constant	K_e	Vs	0,48
Torque Constant	K_M	Nm/A	0,84
Term.Resistance Ph-Ph	R_{Ph}	\dot{U}	6
Term.Inductance Ph-Ph	L_{Ph}	mH	30

Windings for different rated speed are available

Length (without Brake)	L	Mm	265
Length (with Brake)	L	mm	288
Motor Weigh (without Brake)	G	kg	6,50
Motor Weigh (with Brake)	G	kg	7,10

Electrical Connections: Interconnectron-connectors Rated Parameter: Acc. to. VDE 0530
Thermal Protection: Thermal Switch, tripping out at 140°C Protection Class: IP 65

Motor Controller: Standard motorwinding designed for power supply $U_{CC} = 320$ V_{DC}



Brushless Servomotors Series EBL 63, 6 pole, $U_{cc}=320$ VDC

General description: Resolver feed back
Shaft keyway DIN 6885
Interconnectron connectors
Compact design

Option: Failsafe holding brake

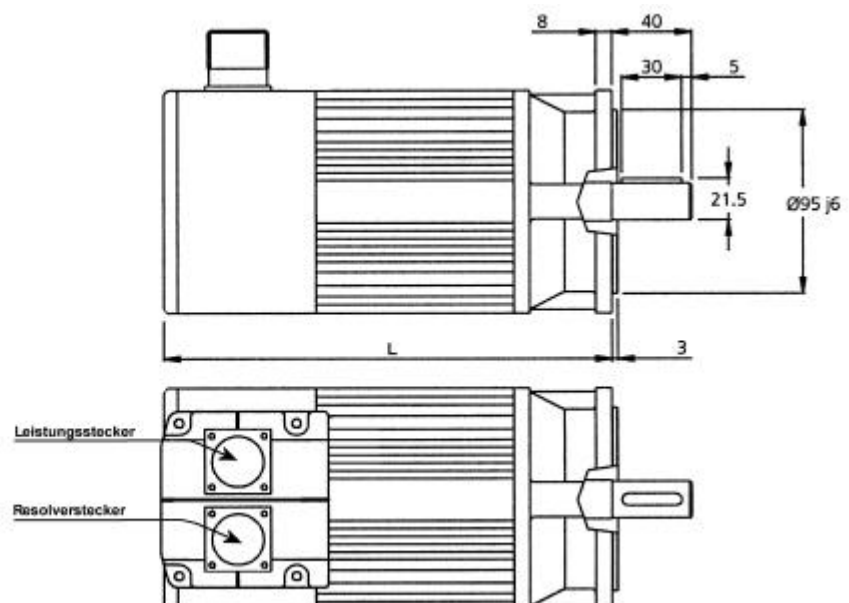
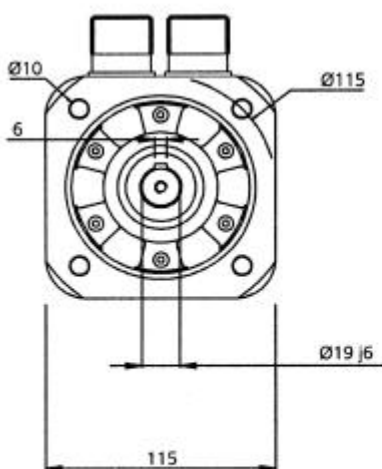
Parameter	EBL 63-	6 - 2000	8 - 2000	4 - 3000	6 - 3000	8 - 3000	10 - 3000
Contin. Stall Torque	M_o Nm	6,00	8,00	4,00	6,00	8,00	10,00
Contin. Stall Current	I_o A	4,20	5,70	4,20	6,40	8,50	10,6
Rated Speed	n_N min^{-1}	2000	2000	3000	3000	3000	3000
Rated Torque	M_N Nm	5,40	7,30	3,50	5,30	7,10	8,80
Rated Current	I_N A	3,80	5,20	3,70	5,60	7,50	9,30
Amps at Peak Torque	I_{max} A	17,30	23,40	18,10	25,90	35,10	43,00
Power	P_n kW	1,13	1,53	1,10	1,67	2,23	2,76
Peak Torque max.	M_{max} Nm	24,4	33,1	17,1	24,4	33,1	40,5
Max. mechan. Speed	n_{max} min^{-1}	4000	4000	4000	4000	4000	4000
Rotor Inertia	J 10^{-4}kgm^2	8,5-13	11-18	5,8-8,6	8,5-13	11-18	14-23
Thermal Time Constant	T_{th} min	30	30	25	30	30	35
Thermal max.	T_{max} $^{\circ}\text{C}$	140	140	140	140	140	140
Back EMF Constant	K_e Vs	0,82	0,82	0,54	0,54	0,54	0,54
Torque Constant	K_M Nm/A	1,41	1,41	0,94	0,94	0,94	0,94
Term.Resistance Ph-Ph	R_{Ph} \dot{U}	4,87	2,86	3,60	2,20	1,30	0,93
Term.Inductance Ph-Ph	L_{Ph} mH	25,67	16,66	17,08	11,41	7,67	5,47

Windings for different rated speed are available

Length (without Brake)	L	Mm	249	274	224	249	274	299
Length (with Brake)	L	mm	280	305	255	280	305	330
Motor Weigh (without Brake)	G	kg	9,00	10,10	7,10	9,00	10,10	12,00
Motor Weigh (with Brake)	G	kg	10,10	12,00	8,10	10,10	12,00	13,90

Electrical Connections: Interconnectron-connectors Rated Parameter: Acc. to. VDE 0530
Thermal Protection: Thermal Switch, tripping out at 140°C Protection Class: IP 65

Motor Controller: Standard motorwinding designed for power supply $U_{CC} = 320$ V_{DC}



Brushless Servomotors Series EBL 71, 6 pole, $U_{cc}=320$ VDC

General description: Resolver feed back
Shaft keyway DIN 6885
Interconnectron connectors
Compact design

Option: Failsafe holding brake

Parameter	EBL 71-	16- 2000	20- 2000	24- 2000	28- 2000	12- 3000	16- 3000	20- 3000	24- 3000	28- 3000
Contin. Stall Torque	M_o Nm	15,6	19,5	23,4	27,3	11,7	15,6	19,5	23,4	27,3
Contin. Stall Current	I_o A	11,0	13,8	16,6	19,3	12,4	16,6	20,7	24,8	29,0
Rated Speed	n_N min^{-1}	2000	2000	2000	2000	3000	3000	3000	3000	3000
Rated Torque	M_N Nm	14,7	18,4	22,0	25,5	10,5	14,1	17,6	21,1	24,6
Rated Current	I_N A	10,4	13,0	15,6	18,0	11,1	15,0	18,7	22,4	26,1
Amps at Peak Torque	I_{max} A	42,5	56,6	65,1	76,4	50,9	63,7	84,9	97,6	114,6
Power	P_n kW	3,1	3,9	4,6	5,36	3,3	4,4	5,5	6,6	8,3
Peak Torque max.	M_{max} Nm	60	80	92	108	48	60	80	92	108
Max. mechan. Speed	n_{max} min^{-1}	4000	4000	4000	4000	4000	4000	4000	4000	4000
Rotor Inertia	J 10^{-4}kgm^2	32-48	38-55	45-63	52-70	24-40	32-48	38-55	45-63	52-70
Thermal Time Constant	T_{th} min	45	50	55	60	45	45	50	55	60
Thermal max.	T_{max} °C	140	140	140	140	140	140	140	140	140
Back EMF Constant	K_e Vs	0,82	0,82	0,82	0,82	0,54	0,54	0,54	0,54	0,54
Torque Constant	K_M Nm/A	1,41	1,41	1,41	1,41	0,94	0,94	0,94	0,94	0,94
Term.Resistance Ph-Ph	R_{Ph} \dot{U}	0,96	0,79	0,61	0,41	0,87	0,43	0,35	0,27	0,20
Term.Inductance Ph-Ph	L_{Ph} mH	8,08	6,84	5,25	3,55	6,11	3,59	3,04	2,33	1,74

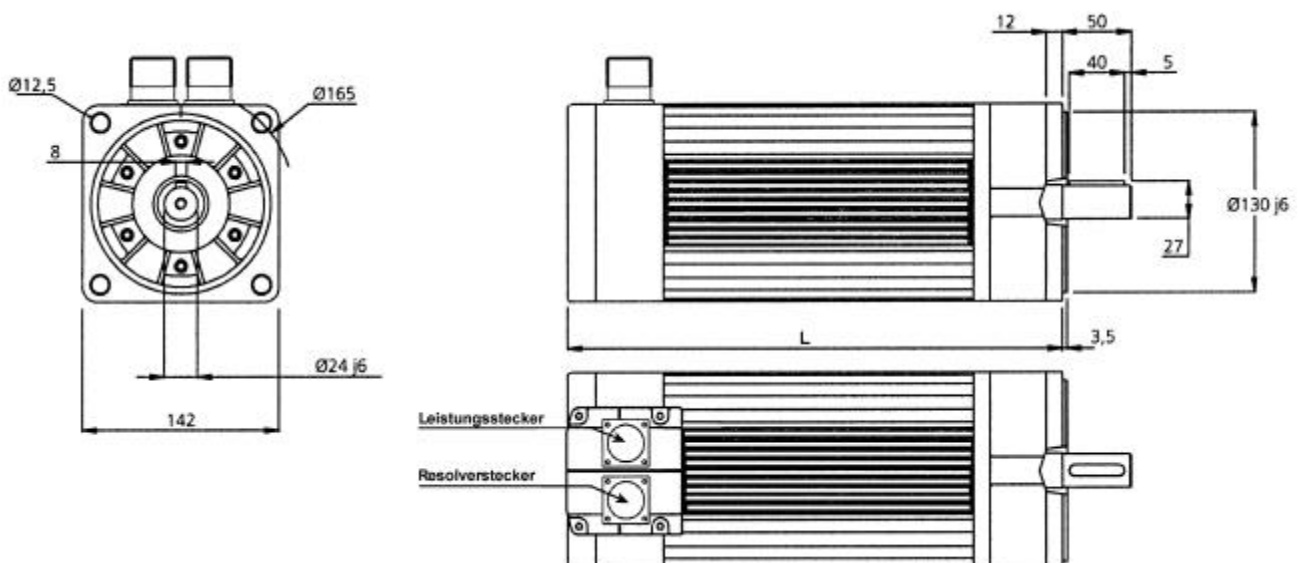
Windings for different rated speed are available

Length (without Brake)	L	Mm	284	309	334	369	259	284	309	334	369
Length (with Brake)	L	mm	314	339	364	389	288	314	339	364	389
Motor Weigh (without Brake)	G	kg	16,4	18,6	20,8	23,0	14,1	16,4	18,6	20,8	23,0
Motor Weigh (with Brake)	G	kg	18,3	20,5	22,7	24,9	16,0	18,3	20,5	22,7	24,9

Electrical Connections: Interconnectron-connectors
Thermal Protection: Thermal Switch, tripping out at 140 °C

Rated Parameter: Protection Class:
Acc. to. VDE 0530
IP 65

Motor Controller: Standard motorwinding designed for power supply $U_{CC} = 320$ V_{DC}



Brushless Servomotors Series EBL 100, 6 pole, $U_{cc}=320$ VDC

General description: Resolver feed back
Shaft keyway DIN 6885
Interconnectron connectors
Compact design

Option: Failsafe holding brake

Parameter	EBL 100 -	30 - 2000	43 - 2000	24 - 3000	30 - 3000
Continuous Stall Torque	M_o Nm	30	43	24	30
Continuous Stall Current	I_o A	21,3	30,5	25,5	31,9
Rated Speed	n_N min^{-1}	2000	2000	3000	3000
Rated Torque	M_N Nm	27,3	39,1	20,9	26,2
Rated Current	I_N A	19,4	27,7	22,2	27,9
Amps at Peak Torque max.	I_{max} A	70,2	98,6	94,7	105,3
Power	P_n kW	5,7	8,2	6,6	8,2
Peak Torque max.	M_{max} Nm	99	139	89	99
Max. mechan. Speed	n_{max} min^{-1}	3000	3000	4000	4000
Rotor Inertia	J 10^{-4}kgm^2	170	238	136	170
Thermal Time Constant	T_{th} min	60	65	55	60
Thermal max.	T_{max} °C	140	140	140	140
Back EMF Constant	K_e Vs	0,81	0,81	0,54	0,54
Torque Constant	K_M Nm/A	1,41	1,41	0,94	0,94
Terminal Resistance Ph-Ph	R_{Ph} \dot{U}	0,27	0,18	0,19	0,14
Terminal Inductance Ph-Ph	L_{Ph} mH	3,38	2,48	2,36	1,79

Windings for different rated speed are available

Length (without Brake)	L mm	326	376	301	326
Length (with Brake)	L mm	390	440	365	390
Motor Weigh (without Brake)	G kg	30	38	26	30
Motor Weigh (with Brake)	G kg	36,4	44,6	32,6	36,4

Electrical Connections: Interconnectron-connectors Rated Parameter: Acc. to. VDE 0530
Thermal Protection: Thermal Switch, tripping out at 140°C Protection Class: IP 65

Motor Controller: Standard motorwinding designed for power supply $U_{CC} = 320$ V_{DC}

