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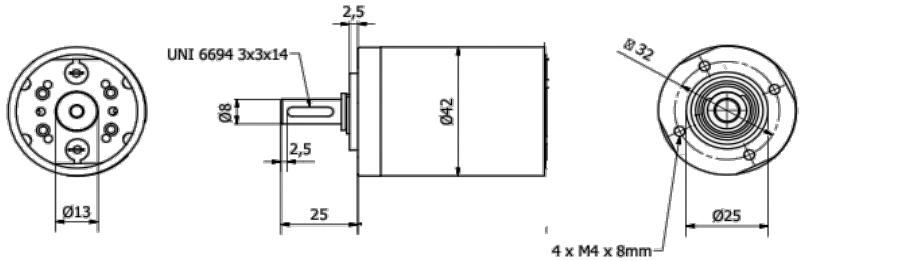
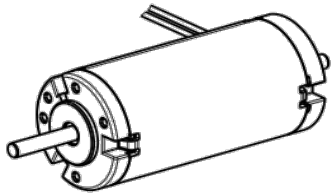




ø 40 x 83

ø 42 + 40 — BB494xx.R42xxx

Bühler Motor 1.13.049. ø40

BB49401R.42xxx - 12V

BB49402R.42xxx - 24V

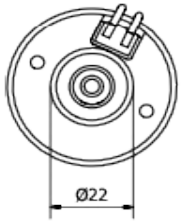
				Motor ø 40 X 83 mm												
xxx	L (mm) con 49.4xx	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	126	4	1	950	750	20	0,2	2,3	120	12,8	950	800	20	0,2	1,15	120	6,4
006	126	6	1	633	500	30	0,3	2,3	190	12,8	633	533	30	0,3	1,15	190	6,4
016	141	16	2	238	188	70	0,7	2,3	460	12,8	238	200	70	0,7	1,15	460	6,4
024	141	24	2	158	125	110	1,1	2,3	690	12,8	158	133	110	1,1	1,15	690	6,4
036	141	36	2	106	83	170	1,7	2,3	1030	12,8	106	89	170	1,7	1,15	1030	6,4
064	157	64	3	59	47	260	2,6	2,3	1600	12,8	59	50	260	2,6	1,15	1600	6,4
096	157	96	3	40	31	400	4	2,3	2400	12,8	40	33	400	4	1,15	2400	6,4
144	157	144	3	26	21	600	6	2,3	3000	11	26	22	600	6	1,15	3000	5,5
216	157	216	3	18	14	900	9	2,3	3000	7,4	18	15	900	9	1,15	3000	3,7

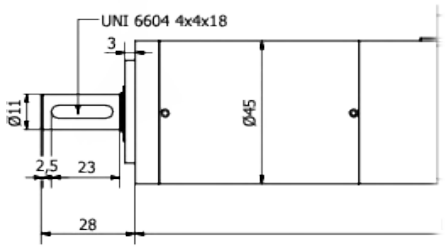
La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

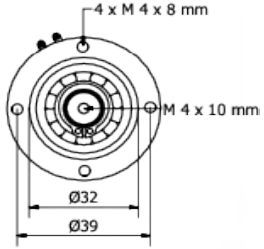
Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

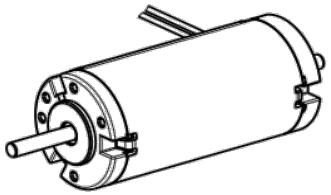
Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.









ø 40 X 83

ø 45 + ø 40 — BB494xx.R45xxx

Bühler Motor 1.13.049. ø40

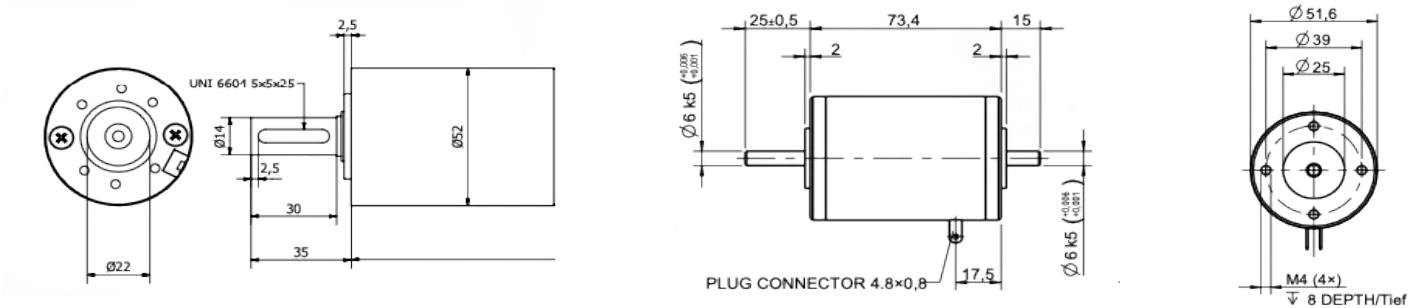
				BB49401R.45xxx - 12V							BB49402R.45xxx - 24V						
				Motor ø 40 X 83 mm													
xxx	L (mm) con 49.4xx	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	122	4	1	950	750	20	0,2	2,3	120	12,8	950	800	20	0,2	1,15	120	6,4
006	122	6	1	633	500	30	0,3	2,3	190	12,8	633	533	30	0,3	1,15	190	6,4
016	141	16	2	238	188	70	0,7	2,3	460	12,8	238	200	70	0,7	1,15	460	6,4
024	141	24	2	158	125	110	1,1	2,3	690	12,8	158	133	110	1,1	1,15	690	6,4
036	141	36	2	106	83	170	1,7	2,3	1030	12,8	106	89	170	1,7	1,15	1030	6,4
064	157	64	3	59	47	260	2,6	2,3	1600	12,8	59	50	260	2,6	1,15	1600	6,4
096	157	96	3	40	31	400	4,0	2,3	2400	12,8	40	33	400	4,0	1,15	2400	6,4
144	157	144	3	26,4	21	600	6,0	2,3	3600	12,8	26,4	22	600	6,0	1,15	3600	6,4
216	157	216	3	17,6	13,9	900	9,0	2,3	4500	10,6	17,6	14,8	900	9,0	1,15	4500	5,3
384	174	384	4	9,9	7,8	1350	13,5	2,3	6500	10,1	9,9	8,3	1350	13,5	1,15	6500	5,05
576	174	576	4	6,6	5,2	1800	18	2	6500	6,7	6,6	5,6	1800	18	1	6500	3,35
864	174	864	4	4,4	3,5	1800	18	1,4	6500	4,4	4,4	3,7	1800	18	0,7	6500	2,2
1296	174	1296	4	2,9	2,3	1200	12	0,66	4500	2	2,9	2,5	1200	12	0,33	4500	1

La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.



ø 52 + ø 51

BB440xx.R52xxx

Bühler Motor 1.13.044. ø51

BB44001R.52xxx - 12V

BB44002R.52xxx - 24V

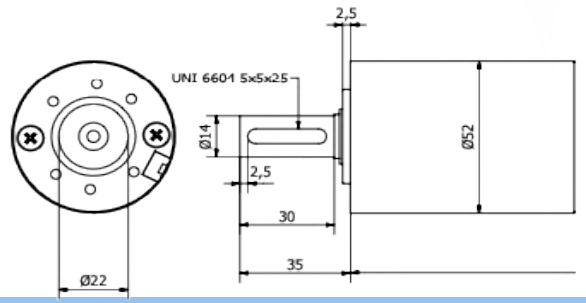
				Motor ø 51 X 73 mm												
xxx	L (mm) con 44.0xx	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	137	4	1	1.000	800	20	0,2	2,6	100	11	1.000	800	20	0,2	1,3	100	5,5
006	137	6	1	667	533	30	0,3	2,6	150	11	667	533	30	0,3	1,3	150	5,5
016	156	16	2	250	200	70	0,7	2,6	350	11	250	200	70	0,7	1,3	350	5,5
024	156	24	2	167	133	110	1,1	2,6	530	11	167	133	110	1,1	1,3	530	5,5
036	156	36	2	111	89	170	1,7	2,6	800	11	111	89	170	1,7	1,3	800	5,5
064	176	64	3	63	50	260	2,6	2,6	1250	11	63	50	260	2,6	1,3	1250	5,5
096	176	96	3	42	33	400	4,0	2,6	1900	11	42	33	400	4,0	1,3	1900	5,5
144	176	144	3	28	22	600	6,0	2,6	2800	11	28	22	600	6,0	1,3	2800	5,5
216	176	216	3	19	15	900	9,0	2,6	4200	11	19	15	900	9,0	1,3	4200	5,5

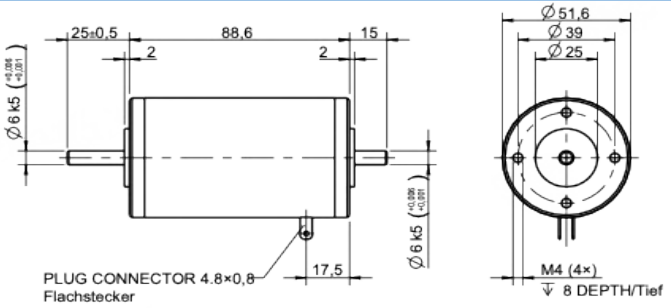
La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.





ø 52 + ø 51

BB442xx.R52xxx

Bühler Motor 1.13.044. ø51

BB44235R.52xxx - 12V

BB44236R.52xxx - 24V

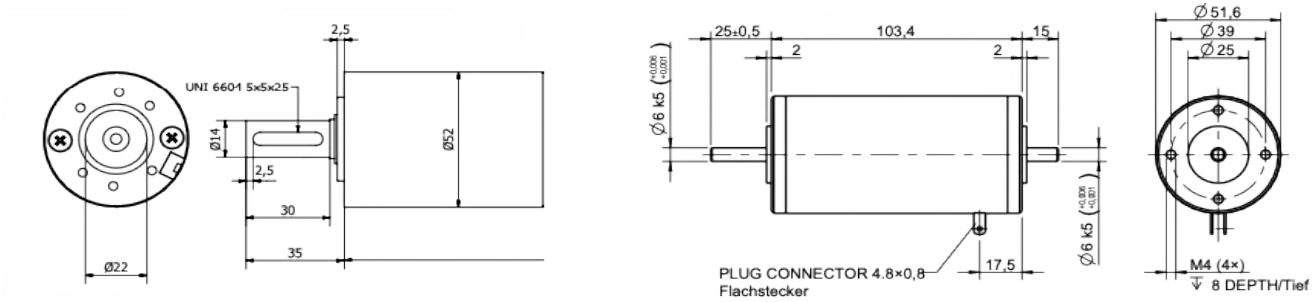
				Motor ø 51 X 88 mm												
xxx	L (mm) con 44.2xx	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	151	4	1	995	750	50	0,5	6,2	230	24	975	750	50	0,5	3,1	230	12
006	151	6	1	663	500	80	0,8	6,2	340	24	650	500	80	0,8	3,1	340	12
016	170	16	2	249	188	190	1,9	6,2	800	24	244	188	190	1,9	3,1	800	12
024	170	24	2	166	125	280	2,8	6,2	1200	24	163	125	280	2,8	3,1	1200	12
036	170	36	2	111	83	430	4,3	6,2	1800	24	108	83	430	4,3	3,1	1800	12
064	190	64	3	62	47	670	6,7	6,2	2800	24	61	47	670	6,7	3,1	2800	12
096	190	96	3	41	31	1000	10,0	6,2	4300	24	41	31	1000	10,0	3,1	4300	12
144	190	144	3	28	21	1500	15,0	6,2	6400	24	27	21	1500	15,0	3,1	6400	12
216	190	216	3	18	14	2200	22,0	6,2	9600	24	18	14	2200	22,0	3,1	9600	12

La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.



ø 52 + ø 51

BB444xx.R52xxx

Bühler Motor 1.13.044. ø51

BB44413R.52xxx - 12V

BB44414R.52xxx - 24V

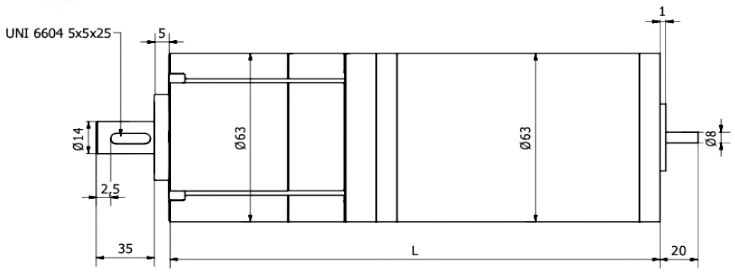
				Motor ø 51 X 103 mm												
xxx	L (mm) con 44.4xx	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	166	4	1	1.000	775	60	0,6	7,0	340	34	950	775	60	0,6	3,5	340	17
006	166	6	1	667	517	90	0,9	7,0	500	34	633	517	90	0,9	3,5	500	17
016	185	16	2	250	194	230	2,3	7,0	1200	34	238	194	230	2,3	3,5	1200	17
024	185	24	2	167	129	340	3,4	7,0	1800	34	158	129	340	3,4	3,5	1800	17
036	185	36	2	111	86	500	5,0	7,0	2700	34	106	86	500	5,0	3,5	2700	17
064	205	64	3	63	48	800	8,0	7,0	4200	34	59	48	800	8,0	3,5	4200	17
096	205	96	3	42	32	1200	12,0	7,0	6300	34	40	32	1200	12,0	3,5	6300	17
144	205	144	3	28	22	1800	18,0	7,0	9500	34	26	22	1800	18,0	3,5	9500	17
216	205	216	3	19	14	2700	27,0	7,0	12200	29	18	14	2700	27,0	3,5	12200	14,5

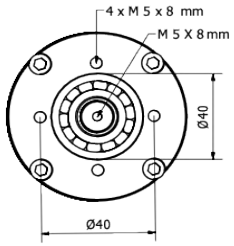
La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

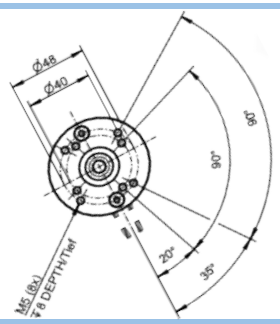
Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.







ø 63 BB632xx.R63xxx

Bühler Motor 1.13.063. ø 63

BB63201R.63xxx - 12V

BB63202R.63xxx - 24V

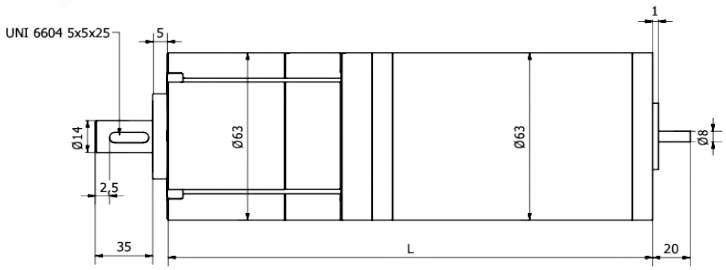
				Motor ø 63 X 95 mm												
xxx	L (mm) con 63.201	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm) -- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	146	4	1	975	825	60	0,6	8,2	400	42,2	950	775	60	0,6	4,1	400	21,1
006	146	6	1	650	550	90	0,9	8,2	600	42,2	633	517	90	0,9	4,1	600	21,1
016	166	16	2	244	206	230	2,3	8,2	1400	42,2	238	194	230	2,3	4,1	1400	21,1
024	166	24	2	163	138	340	3,4	8,2	2100	42,2	158	129	340	3,4	4,1	2100	21,1
036	166	36	2	108	92	500	5,0	8,2	3200	42,2	106	86	500	5,0	4,1	3200	21,1
064	186	64	3	61	52	800	8,0	8,2	5000	42,2	59	48	800	8,0	4,1	5000	21,1
096	186	96	3	41	34	1200	12,0	8,2	7500	42,2	40	32	1200	12,0	4,1	7500	21,1
144	186	144	3	27	23	1800	18,0	8,2	11300	42,2	26	22	1800	18,0	4,1	11300	21,1
216	186	216	3	18	15	2700	27,0	8,2	13000	33	18	14	2700	27,0	4,1	13000	16,5

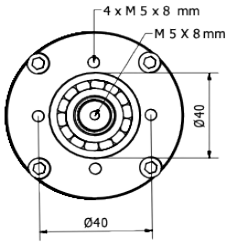
La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

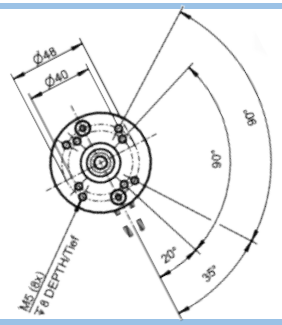
Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.







ø 63

BB634xx.R63xxx

Bühler Motor 1.13.063. ø 63

BB63401R.63xxx - 12V

BB63402R.63xxx - 24V

				Motor ø 63 X 125 mm												
xxx	L (mm) con 63.401	Gear Ratio i=	N° Stages	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm)-- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)	No Load Speed (rpm/1)	Rated Speed (rpm/1)	Rated Torque (Ncm)-- (Nm)		Rated current (I/A)	Max Torque (Ncm)	Max Current (I/A)
004	176	4	1	1.010	775	110	1,1	12,2	1050	96	893	775	110	1,1	6,1	1050	48
006	176	6	1	673	517	170	1,7	12,2	1500	96	595	517	170	1,7	6,1	1500	48
016	196	16	2	253	194	400	4,0	12,2	3700	96	223	194	400	4,0	6,1	3700	48
024	196	24	2	168	129	610	6,1	12,2	5600	96	149	129	610	6,1	6,1	5600	48
036	196	36	2	112	86	920	9,2	12,2	8400	96	99	86	920	9,2	6,1	8400	48
064	216	64	3	63	48	1430	14,3	12,2	13000	96	56	48	1430	14,3	6,1	13000	48
096	216	96	3	42	32	2150	21,5	12,2	15000	74	37	32	2150	21,5	6,1	15000	37
144	216	144	3	28	22	3000	30,0	12,2	15000	50	25	22	3000	30,0	6,1	15000	25
216	216	216	3	19	14	3000	30,0	8,0	15000	33	17	14	3000	30,0	4,0	15000	16,5

La corrente di spunto (I max) non deve essere mantenuta per più di 2".
The starting current (I max) and must not mantained for more than 2".

Forze massime sul punto estremo albero di uscita: Assiale 300 N, Radiale 400 N dell'albero di uscita.
Max load on the extremity of output shaft: Axial 300 N, Radial 400 N.

Albero uscita supportato da due cuscinetti accoppiati schermati.
Output shaft is supported by two coupled screened bearings.

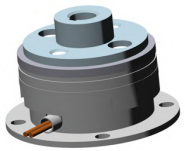
*Le velocità di rotazione sono soggette a variazioni di ±10%.
*The speed rotation can change of ±10%.

Add - On possibili

ø 51 mm

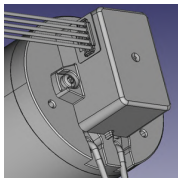
Power Off Brake

Power On Brake

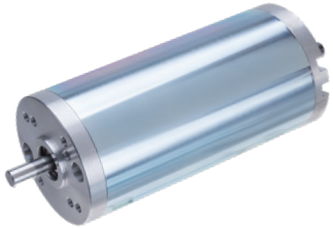


Encoder BEI40

Encoder BEI50

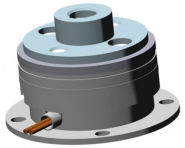


ø 63 mm



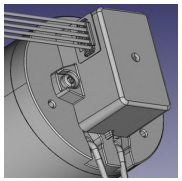
Power Off Brake

Power On Brake

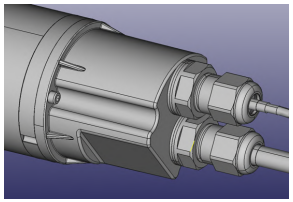


Encoder BEI40

Encoder BEI50



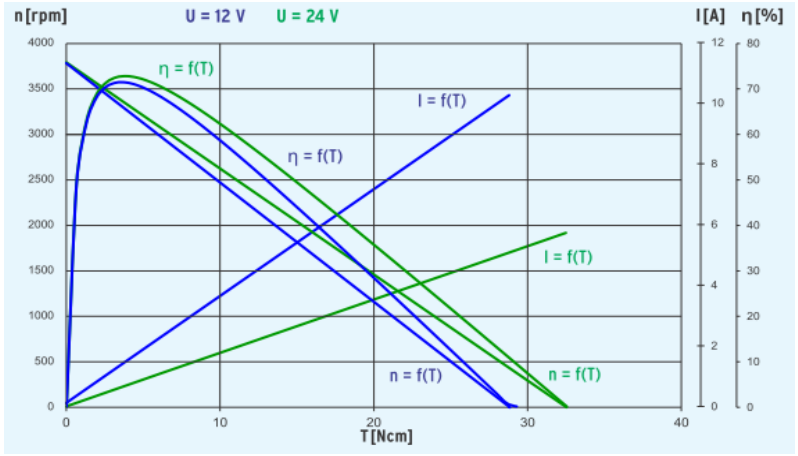
IP67 for encoder, Brakes

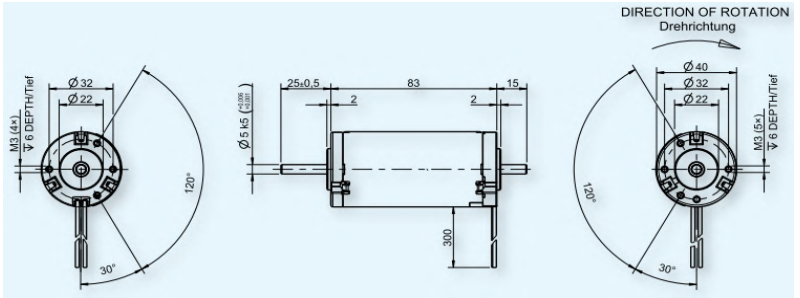


Specifiche Motori

ø 40 mm

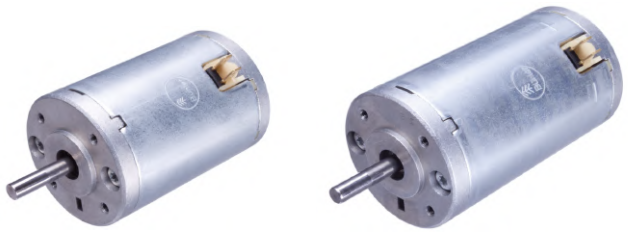
Performance	•optimum Voltage 6 … 40V •max. 12.000 min-1 •Pperm. ca. 20 W •Pmax ca. 40 W
Design	•Available length 83m •7 segments, twisted armature •ball bearings only •Zinc diecast end shield
Modifications	•Winding change •Shaft length and diameter (only thinner) •Assembly of cables •Integrated EMC protection •Different brush materials
USP	•up to 3.000h lifetime •Low back drive •Cost / Performance ratio

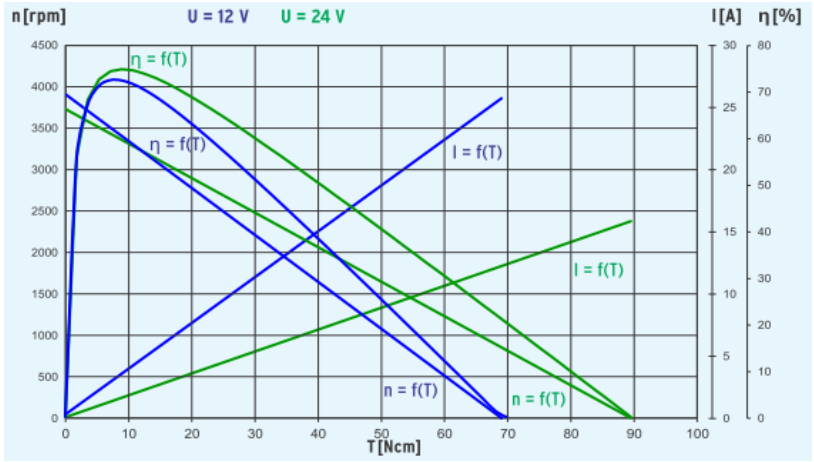




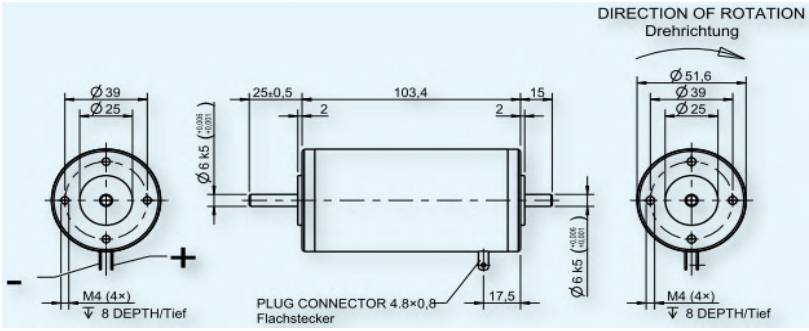
Specifiche Motori

ø 51 mm



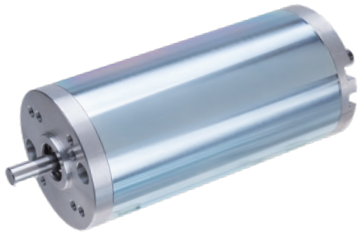


Performance	•optimum Voltage 12 … 48V •max. 12.000 min-1 •Pperm. ca. 20-100 W •Pmax ca. 40-200 W
Design	•Available length 73, 88, 103, 141m •12 segments, straight and twisted armature •ball bearings only •Zinc diecast end shield
Modifications	•Winding change •Shaft length and diameter (only thinner) •Direct cable version •Integrated EMC protection, NTC/PTC •Different brush materials
USP	•up to 4.000h lifetime •design ▸ power / ∅ •Cost / Performance ratio



Specifiche Motori

ø 63 mm



Performance	•optimum Voltage 12 … 60V •max. 10.000 min-1 •Pperm. ca. 60-100 W •Pmax ca. 120-200 W
Design	•Available length 95, 125mm •12 segment, straight armature •ball bearings only •Aluminum end shield •IP67 (except bearings)
Modifications	•Winding change •Shaft length and diameter (only thinner) •Integrated EMC protection, NTC/PTC •Different brush materials •Low back drive version •End shield design flexible
USP	•Flexibility •Low noise