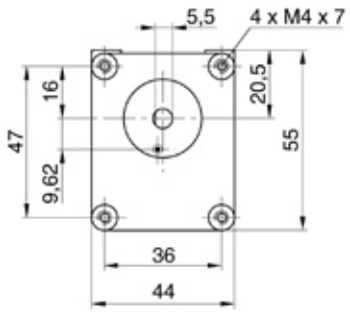
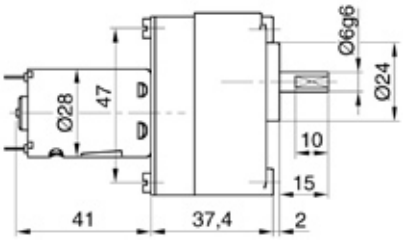
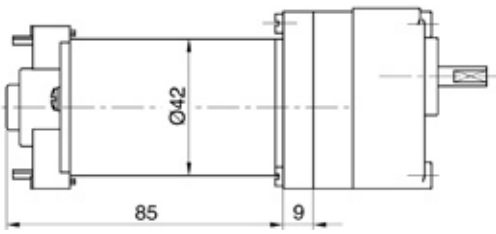
series K30 GEARBOX

1,4 Nm



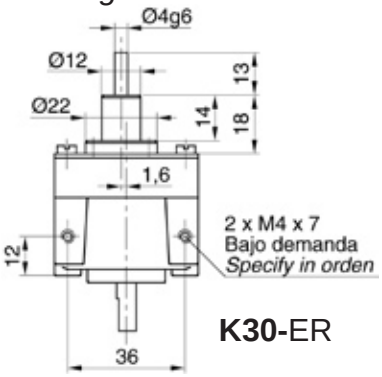


K30-28.41

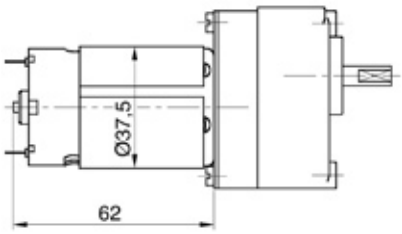


K30-42.85

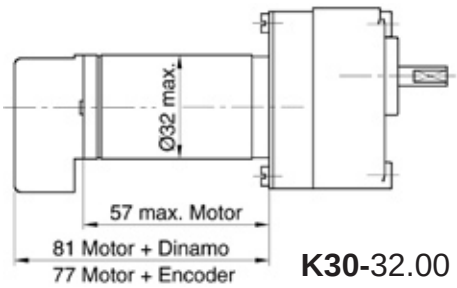
K30-Mounting



K30-ER



K30-37.62



K30-32.00

TECHNICAL CHARACTERISTICS

Gearbox for heavy duty continuous workload in any position, at room temperature from -15° to 50°C with ***torque load up to 3 Nm****.*

- ***Box*** *made of die-cast zamak. Frontal mounting by four M4 threaded holes.*
- ***Gearset.*** *Spur gearset with hardened steel pinions and steel gearwheels with superficial thermal treatment, which turn on rectified hardened steel shafts attached to the box.*
- ***Output shaft.*** *Steel shaft Ø6 mm and 15 mm long with a flat surface. The shaft turns on ball bearing at the front and roller bearing on the back side.*
- ***Maximal output shaft load:***

Axial pull.	*200 N ≈ 20 Kg.*
Axial push.	*20 N ≈ 2 Kg.*
Radial at 8 mm. from the flange.	*150 N ≈ 15 Kg.*

- ***Lubrication:*** *Lithium grade 2 grease lubricant.*
- ***Weight*****:** *0.3 Kg. with the maximal number of stages included the motor mounting plate.*

MOTOR COUPLING.

Motor mounting plate adapted to motor type.

- ***DC Motors:*** *28.41 at 12 or 24 V. DC.*

■ ***OPTIONAL***

- ***Other motors*****:** *Maximal external diameter Ø42 mm, rotor shaft up to Ø4 mm. and a maximal recommended speed of 4,000 r.p.m.*
- ***Output shaft Ø8 without flat surface.***
- ***Vertical mounting*** *by two M4 threaded holes.*

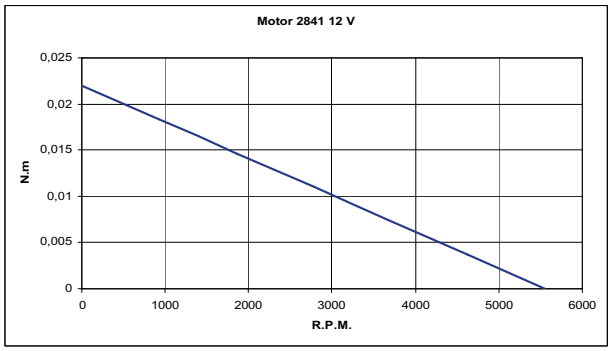
Your special requests are welcome.

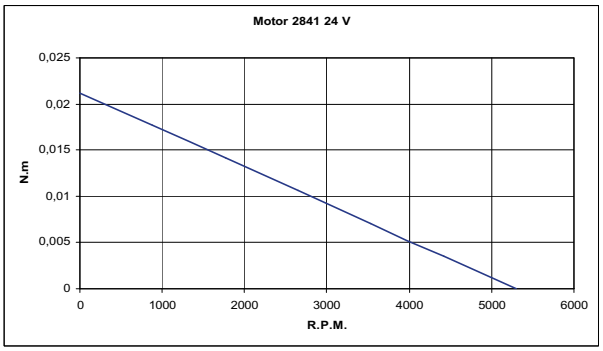
KELVIN	MOTORES DE C.C. - *DC MOTORS* Serie/*Series* : **28.41**							
			12 V			**24 V**		
Reducción *Ratio* **i = X:1**	Nº Pasos *Stages*	Factor de par *Torque factor*	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (m.N.m)	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (m.N.m)
5,34	2	4,33	1039	927	17,30	993	805	20,33
6,32	2	5,12	878	783	20,48	839	680	24,06
7,44	2	6,03	746	665	24,11	712	578	28,32
8,79	2	7,12	631	563	28,48	603	489	33,46
9,94	2	8,05	558	498	32,21	533	433	37,84
10,54	2	8,54	527	470	34,15	503	408	40,13
11,75	2	9,52	472	421	38,07	451	366	44,73
17,81	3	12,98	312	278	51,93	298	241	61,02
21,05	3	15,35	264	235	61,38	252	204	72,12
24,79	3	18,07	224	200	72,29	214	173	84,94
31,55	3	23,00	176	157	92,00	168	136	108,10
33,14	3	24,16	167	149	96,64	160	130	113,55
35,16	3	25,63	158	141	102,53	151	122	120,47
39,17	3	28,55	142	126	114,21	135	110	134,20
42,17	3	30,74	132	117	122,97	126	102	144,49
46,99	3	34,26	118	105	137,02	113	92	161,00
59,37	4	38,95	93	83	155,81	89	72	183,08
70,17	4	46,04	79	71	184,15	76	61	216,38
82,64	4	54,22	67	60	216,88	64	52	254,83
90,68	4	59,50	61	55	237,98	58	47	279,63
97,67	4	64,08	57	51	256,33	54	44	301,18
101,04	4	66,29	55	49	265,17	52	43	311,57
110,45	4	72,47	50	45	289,86	48	39	340,59
126,22	4	82,81	44	39	331,25	42	34	389,22
130,53	4	85,64	43	38	342,56	41	33	402,51
140,64	4	92,27	39	35	369,10	38	31	433,69
168,69	4	110,68	33	29	442,71	31	25	520,18
187,97	4	123,33	30	26	493,31	28	23	579,64
197,91	5	116,86	28	25	467,46	27	22	549,26
233,89	5	138,11	24	21	552,44	23	18	649,12
275,47	5	162,66	20	18	650,65	19	16	764,51
325,56	5	192,24	17	15	768,96	16	13	903,53
362,71	5	214,18	15,3	14	856,71	15	11,9	1.006,63
368,18	5	217,41	15,1	13	869,63	14	11,7	1.021,81
404,16	5	238,65	14	12	954,61	13	11	1.121,67
435,11	5	256,93	13	11	1.027,71	12	10	1.207,56
562,56	5	332,19	10	9	1.328,74	9	8	1.561,27
674,75	5	398,43	8	7,3	1.593,73	8	6,4	1.872,64
751,87	5	443,97	7	6,6	1.775,89	7	5,7	2.086,67

ATENCION: Las velocidades pueden verse influenciadas por la carga hasta un -40%.
WARNING: *The load might reduce final speed up to 40%.*

VELOCIDAD EN VACIO/PAR NOMINAL
NO LOAD SPEED/NOMINAL TORQUE
Motor **28.41-12 V**= 5.550 r.p.m./4 m.N.m.
Motor **28.41-24 V**= 5.300 r.p.m./4,7 m.N.m.

CURVAS - *CURVES*



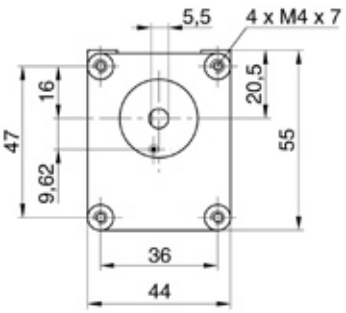


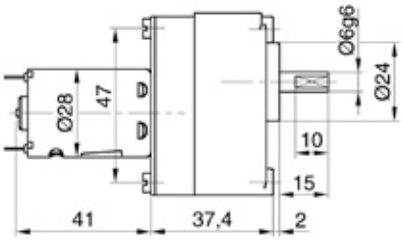
RECOMENDACIONES:
Nivel de ruido: el nivel de ruido del reductor depende de la uniformidad de la carga, ubicación (evitar resonancia) y de la velocidad; a menor velocidad, principalmente la del motor, menor nivel de ruido.
Par admisible: sobrepasar la carga máx. implica disminuir sensiblemente la vida del reductor.
Evitar montar o desmontar ninguna pieza a golpes en el eje de salida, ya que podría dañar el reductor de forma irreparable.

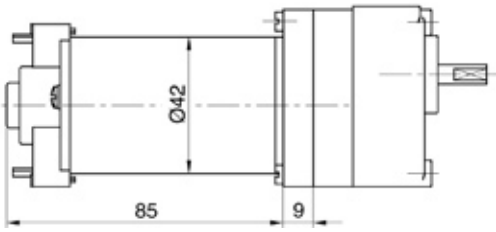
GEARBOX TIPS:
Noise. *Noise level depends on load symmetry, location (avoid acoustic resonance), and rotation speed; the lower the speed on the input shaft (motor), the lower the noise.*
Load torque. *Overloading of the output shaft will reduce the gearbox life.*
Warning. *Impact on the output when engaging the load could damage the gearbox.*

series K30 *GEARBOX*

1,4 Nm



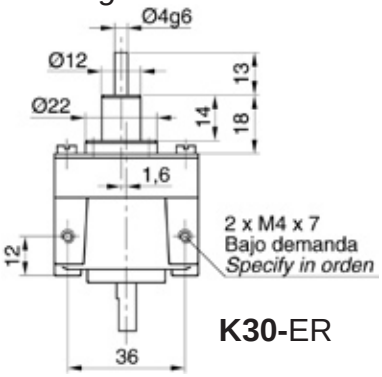


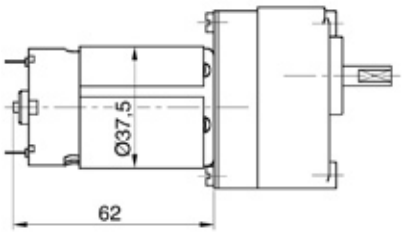


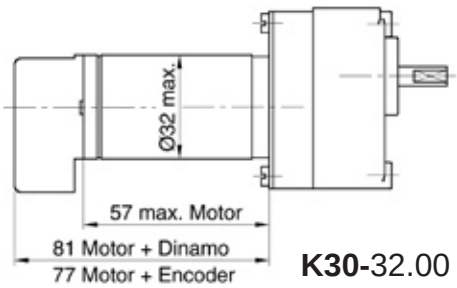
K30-28.41

K30-42.85

***K30-**Mounting*







K30-ER

K30-37.62

K30-32.00

TECHNICAL CHARACTERISTICS

Gearbox for heavy duty continuous workload in any position, at room temperature from -15° to 50°C with ***torque load up to 3 Nm****.*

- ***Box*** *made of die-cast zamak. Frontal mounting by four M4 threaded holes.*
- ***Gearset.*** *Spur gearset with hardened steel pinions and steel gearwheels with superficial thermal treatment, which turn on rectified hardened steel shafts attached to the box.*
- ***Output shaft.*** *Steel shaft Ø6 mm and 15 mm long with a flat surface. The shaft turns on ball bearing at the front and roller bearing on the back side.*
- ***Maximal output shaft load:***

Axial pull.	*200 N ≈ 20 Kg.*
Axial push.	*20 N ≈ 2 Kg.*
Radial at 8 mm. from the flange.	*150 N ≈ 15 Kg.*

- ***Lubrication:*** *Lithium grade 2 grease lubricant.*
- ***Weight*****:** *0.3 Kg. with the maximal number of stages included the motor mounting plate.*

MOTOR COUPLING.

Motor mounting plate adapted to motor type.

- ***DC Motors:*** *37.62 at 12 or 24 V. DC.*

■ ***OPTIONAL***

- ***Other motors*****:** *Maximal external diameter Ø42 mm, rotor shaft up to Ø4 mm. and a maximal recommended speed of 4,000 r.p.m.*
- ***Output shaft Ø8 without flat surface.***
- ***Vertical mounting*** *by two M4 threaded holes.*

Your special requests are welcome.

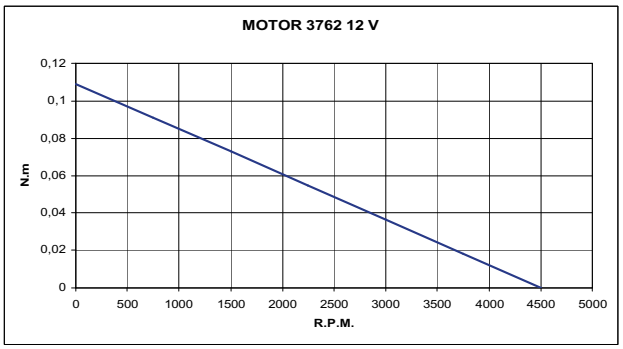
KELVIN	MOTORES DE C.C. - *DC MOTORS* Serie/*Series* : **37.62**							
			12 V			**24 V**		
Reducción *Ratio* **i = X:1**	Nº Pasos *Stages*	Factor de par *Torque factor*	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (N.m)	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (N.m)
5,34	2	4,33	777	689	0,08	702	642	0,08
6,32	2	5,12	657	582	0,10	593	543	0,10
7,44	2	6,03	558	495	0,12	504	461	0,11
8,79	2	7,12	472	419	0,14	427	390	0,14
9,94	2	8,05	418	370	0,15	377	345	0,15
10,54	2	8,54	394	349	0,16	356	325	0,16
11,75	2	9,52	353	313	0,18	319	292	0,18
17,81	3	12,98	233	207	0,25	211	193	0,25
21,05	3	15,35	197	175	0,29	178	163	0,29
24,79	3	18,07	167	148	0,35	151	138	0,34
31,55	3	23,00	132	117	0,44	119	109	0,44
33,14	3	24,16	125	111	0,46	113	104	0,46
35,16	3	25,63	118	105	0,49	107	98	0,49
39,17	3	28,55	106	94	0,55	96	88	0,54
42,17	3	30,74	98	87	0,59	89	81	0,58
46,99	3	34,26	88	78	0,65	80	73	0,65
59,37	4	38,95	70	62	0,74	63	58	0,74
70,17	4	46,04	59	52	0,88	53	49	0,87
82,64	4	54,22	50	45	1,04	45	42	1,03
90,68	4	59,50	46	41	1,14	41	38	1,13
97,67	4	64,08	42	38	1,22	38	35	1,22
101,04	4	66,29	41	36	1,27	37	34	1,26
110,45	4	72,47	38	33	1,38	34	31	1,38
126,22	4	82,81	33	29	1,58	30	27	1,57
130,53	4	85,64	32	28	1,64	29	26	1,63
140,64	4	92,27	30	26	1,76	27	24	1,75
168,69	4	110,68	25	22	2,11	22	20	2,10
187,97	4	123,33	22	20	2,36	20	18	2,34
197,91	5	116,86	21	19	2,23	19	17	2,22
233,89	5	138,11	18	16	2,64	16	15	2,62
275,47	5	162,66	15	13		14	12	
325,56	5	192,24	13	11		12	11	
362,71	5	214,18	11,4	10,1		10,3	9,5	
368,18	5	217,41	11,3	10	**Ex**	10,2	9,3	**Ex**
404,16	5	238,65	10,3	9	**par/*torque* máx. 3 N.m**	9,3	8,5	**par/*torque* máx. 3 N.m**
435,11	5	256,93	9,5	8		8,6	7,9	
562,56	5	332,19	7	7		7	6	
674,75	5	398,43	6,2	5,5		6	5,1	
751,87	5	443,97	5,5	4,9		5	4,6	

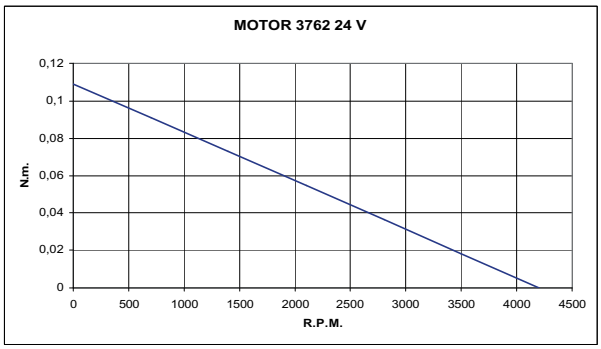
Ex **Ex**cede el máximo par admisible
Ex*ceeds maximal admissible torque*

ATENCION: Las velocidades pueden verse influenciadas por la carga hasta un -40%.
WARNING: *The load might reduce final speed up to 40%.*

VELOCIDAD EN VACIO/PAR NOMINAL
NO LOAD SPEED/NOMINAL TORQUE
Motor **37.62-12 V**= 4.150 r.p.m./0,0191 N.m.
Motor **37.62-24 V**= 3.750 r.p.m./0,019 N.m.

CURVAS - *CURVES*



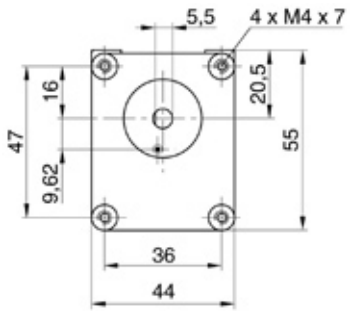


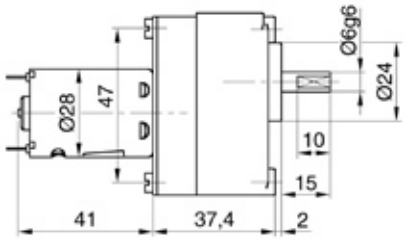
RECOMENDACIONES:
Nivel de ruido: el nivel de ruido del reductor depende de la uniformidad de la carga, ubicación (evitar resonancia) y de la velocidad; a menor velocidad, principalmente la del motor, menor nivel de ruido.
Par admisible: sobrepasar la carga máx. implica disminuir sensiblemente la vida del reductor.
Evitar montar o desmontar ninguna pieza a golpes en el eje de salida, ya que podría dañar el reductor de forma irreparable.

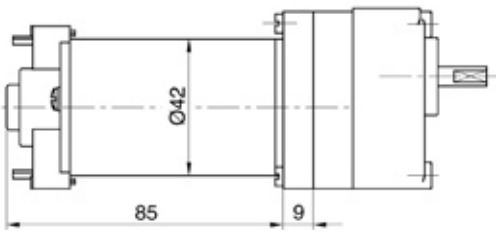
GEARBOX TIPS:
Noise. *Noise level depends on load symmetry, location (avoid acoustic resonance), and rotation speed; the lower the speed on the input shaft (motor), the lower the noise.*
Load torque. *Overloading of the output shaft will reduce the gearbox life.*
Warning. *Impact on the output when engaging the load could damage the gearbox.*

series **K30** *GEARBOX*

1,4 Nm

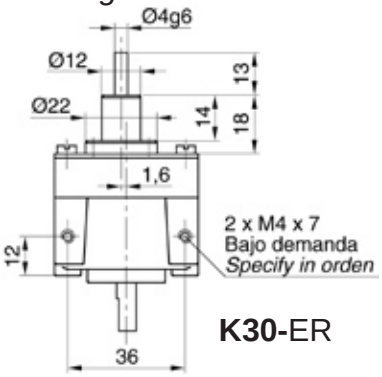


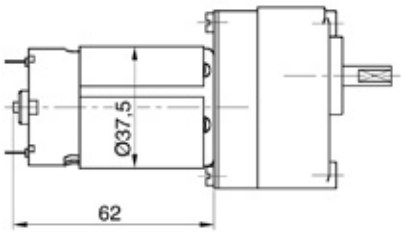


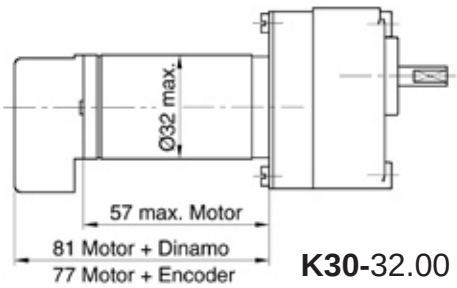


K30-28.41 **K30-**42.85

***K30-**Mounting*







K30-ER **K30-**37.62 **K30-**32.00

TECHNICAL CHARACTERISTICS

Gearbox for heavy duty continuous workload in any position, at room temperature from -15° to 50°C with ***torque load up to 3 Nm****.*

- ***Box*** *made of die-cast zamak. Frontal mounting by four M4 threaded holes.*
- ***Gearset.*** *Spur gearset with hardened steel pinions and steel gearwheels with superficial thermal treatment, which turn on rectified hardened steel shafts attached to the box.*
- ***Output shaft.*** *Steel shaft Ø6 mm and 15 mm long with a flat surface. The shaft turns on ball bearing at the front and roller bearing on the back side.*
- ***Maximal output shaft load:***

Axial pull.	*200 N ≈ 20 Kg.*
Axial push.	*20 N ≈ 2 Kg.*
Radial at 8 mm. from the flange.	*150 N ≈ 15 Kg.*

- ***Lubrication:*** *Lithium grade 2 grease lubricant.*
- ***Weight*****:** *0.3 Kg. with the maximal number of stages included the motor mounting plate.*

MOTOR COUPLING.

Motor mounting plate adapted to motor type.

- ***DC Motors:*** *42.85 at 12 or 24 V. DC.*

■ ***OPTIONAL***

- ***Other motors*****:** *Maximal external diameter Ø42 mm, rotor shaft up to Ø4 mm. and a maximal recommended speed of 4,000 r.p.m.*
- ***Output shaft Ø8 without flat surface.***
- ***Vertical mounting*** *by two M4 threaded holes.*

Your special requests are welcome.

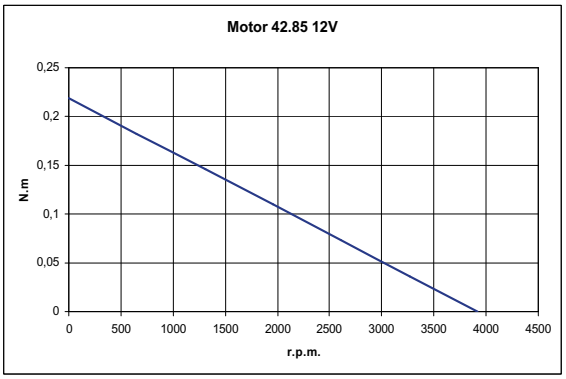
KELVIN	MOTORES DE C.C. - *DC MOTORS* Serie/*Series*: **42.85**							
			12 V			**24 V**		
Reducción *Ratio* **i = X:1**	Nº Pasos *Stages*	Factor de par *Torque factor*	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (N.m)	Velocidad en vacío *No load speed* Vo (r.p.m.)	Velocidad nominal *Nominal speed* Vn (r.p.m.)	Par Nominal *Nominal torque* (N.m)
5,34	2	4,33	734	500	0,30	751	575	0,30
6,32	2	5,12	620	422	0,36	634	486	0,36
7,44	2	6,03	527	359	0,42	539	413	0,42
8,79	2	7,12	446	304	0,50	456	349	0,50
9,94	2	8,05	394	269	0,56	403	309	0,56
10,54	2	8,54	372	253	0,60	380	291	0,60
11,75	2	9,52	334	227	0,67	341	261	0,67
17,81	3	12,98	220	150	0,91	225	172	0,91
21,05	3	15,35	186	127	1,07	190	146	1,07
24,79	3	18,07	158	108	1,27	162	124	1,27
31,55	3	23,00	124	85	1,61	127	97	1,61
33,14	3	24,16	118	81	1,69	121	93	1,69
35,16	3	25,63	111	76	1,79	114	87	1,79
39,17	3	28,55	100	68	2,00	102	78	2,00
42,17	3	30,74	93	63	2,15	95	73	2,15
46,99	3	34,26	83	57	2,40	85	65	2,40
59,37	4	38,95	66	45	2,73	68	52	2,73
70,17	4	46,04	56	38		57	44	
82,64	4	54,22	47	32		49	37	
90,68	4	59,50	43	29		44	34	
97,67	4	64,08	40	27		41	31	
101,04	4	66,29	39	26		40	30	
110,45	4	72,47	35	24		36	28	
126,22	4	82,81	31	21	**Ex**	32	24,3	**Ex**
130,53	4	85,64	30	20	**par/*torque* máx. 3 N.m**	31	23,5	**par/*torque* máx. 3 N.m**
140,64	4	92,27	28	19		29	22	
168,69	4	110,68	23	16		24	18	
187,97	4	123,33	21	14		21	16,3	
197,91	5	116,86	20	13		20	15,5	
233,89	5	138,11	17	11		17	13	
275,47	5	162,66	14	10		15	11	
325,56	5	192,24	12	8		12	9	
362,71	5	214,18	10,8	7,4		11,1	8,5	
368,18	5	217,41	10,6	7,3		10,9	8,3	
404,16	5	238,65	10	6,6		10	7,6	
435,11	5	256,93	9	6		9	7	
562,56	5	332,19	7	5		7	5,5	
674,75	5	398,43	6	4		6	4,5	
751,87	5	443,97	5	3,6		5	4	

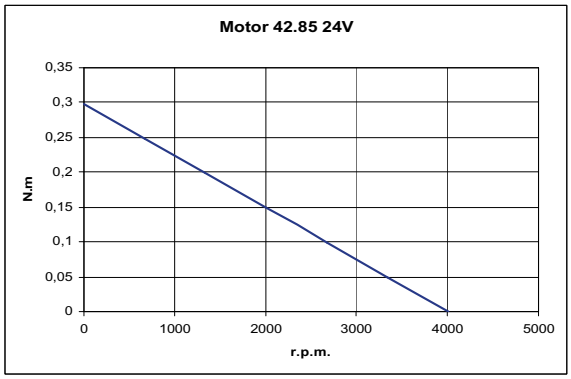
Ex **Ex**cede el máximo par admisible
Ex*ceeds maximal admissible torque*

ATENCION: Las velocidades pueden verse influenciadas por la carga hasta un -40%.
WARNING: *The load might reduce final speed up to 40%.*

VELOCIDAD EN VACIO/PAR NOMINAL
NO LOAD SPEED/NOMINAL TORQUE
Motor **42.85-12 V**= 3.920 r.p.m./0,07 N.m.
Motor **42.85-24 V**= 4.010 r.p.m./0,07 N.m.

CURVAS - *CURVES*





RECOMENDACIONES:
Nivel de ruido: el nivel de ruido del reductor depende de la uniformidad de la carga, ubicación (evitar resonancia) y de la velocidad; a menor velocidad, principalmente la del motor, menor nivel de ruido.
Par admisible: sobrepasar la carga máx. implica disminuir sensiblemente la vida del reductor.
Evitar montar o desmontar ninguna pieza a golpes en el eje de salida, ya que podría dañar el reductor de forma irreparable.

GEARBOX TIPS:
Noise. *Noise level depends on load symmetry, location (avoid acoustic resonance), and rotation speed; the lower the speed on the input shaft (motor), the lower the noise.*
Load torque. *Overloading of the output shaft will reduce the gearbox life.*
Warning. *Impact on the output when engaging the load could damage the gearbox.*