

Motoreducteur Courant Continu RE040G/PM42



Les avantages :
 Motoréducteur d'asservissement - Idéal pour fonctionnement en start/stop et inversion de sens de rotation - Bon rendement - Rapport puissance/encombrement exceptionnel

Les produits associés :

> Alimentation

DRP-240-24

S-150-24

> Codeur

HEDL 5540

HEDS 5540

> Connectique

EPOS KIT POUR MOTEUR

EPOS KIT START DC

> Selfs-Moteur

SELF MOTEUR

> Cartes électroniques

EPOS P 24/5

EPOS2 24/5

ADS 50/10

FIRST DC 1Q 60/10

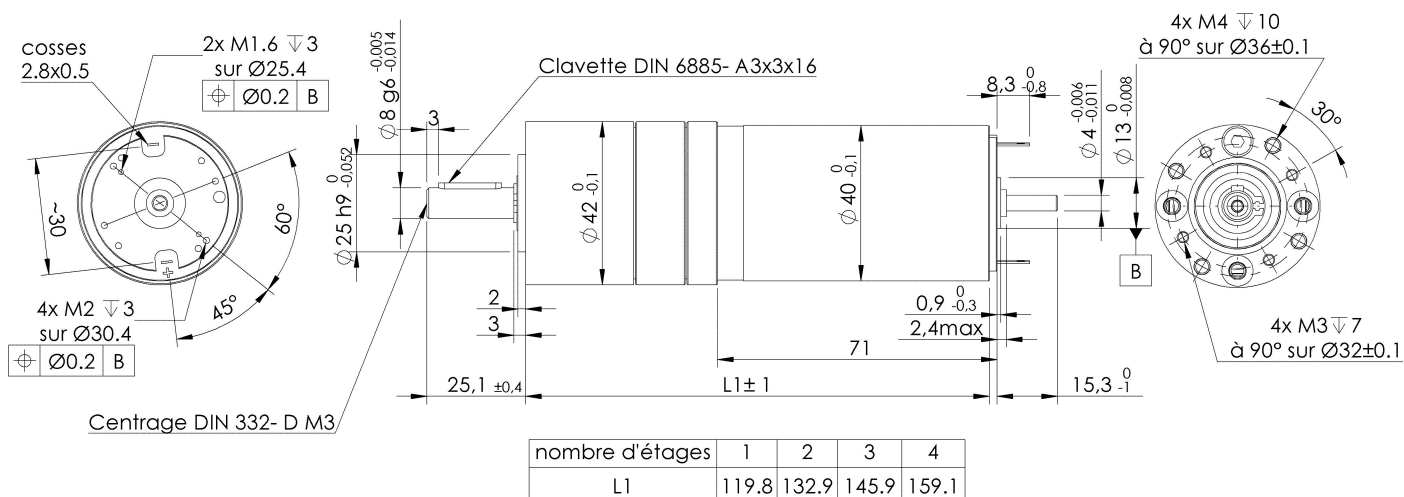
maxon motor

0.5 Nm - 15 Nm

Version	Rapport de réduction	Nombre d'étages	Rendement	Vitesse à vide en tr/mn	Vitesse en charge en tr/mn	Couple nominal en Nm	Courant nominal en A
12V/0004	3.70	1	0.80	1024	862	0.54	6
12V/0016	15.88	2	0.75	239	203	2.00	6
12V/0025	25.01	2	0.75	152	129	3.20	5.8
12V/0051	50.89	3	0.70	74	63	6.00	5.8
12V/0100	99.5	3	0.70	38	32	11.80	5.8
12V/0169	168.84	3	0.70	22	20	15.00	4.3
12V/0252	252.24	4	0.65	15	14	15.00	3.2

24V/0004	3.70	1	0.80	2049	1896	0.50	5.8
24V/0016	15.88	2	0.75	477	442	2.00	5.8
24V/0025	25.01	2	0.75	303	280	3.20	5.8
24V/0051	50.89	3	0.70	149	138	6.00	5.8
24V/0100	99.5	3	0.70	76	70	11.80	5.8
24V/0169	168.84	3	0.70	45	42	15.00	4.3
24V/0252	252.24	4	0.65	30	29	15.00	3.2

Commutation	Graphite
Nombre de lames au collecteur	13
Aimant	Néodym Fer Bore
Type de réducteur	PLANETAIRE
Paliers	Roulement à billes
Charge axiale maximum	110 N
Charge radiale maximum	160 N
Force de chassage	320 N
Jeu angulaire en charge	0.90 °
Vitesse maximum d'entrée	3000 tr/mn
Température ambiante mini de	-20 °C
Température ambiante maxi de	100 °C
étage d'entrée	Delrin
étage de sortie	Acier
Poids minimum	1080 g



Version du 07/06/2012



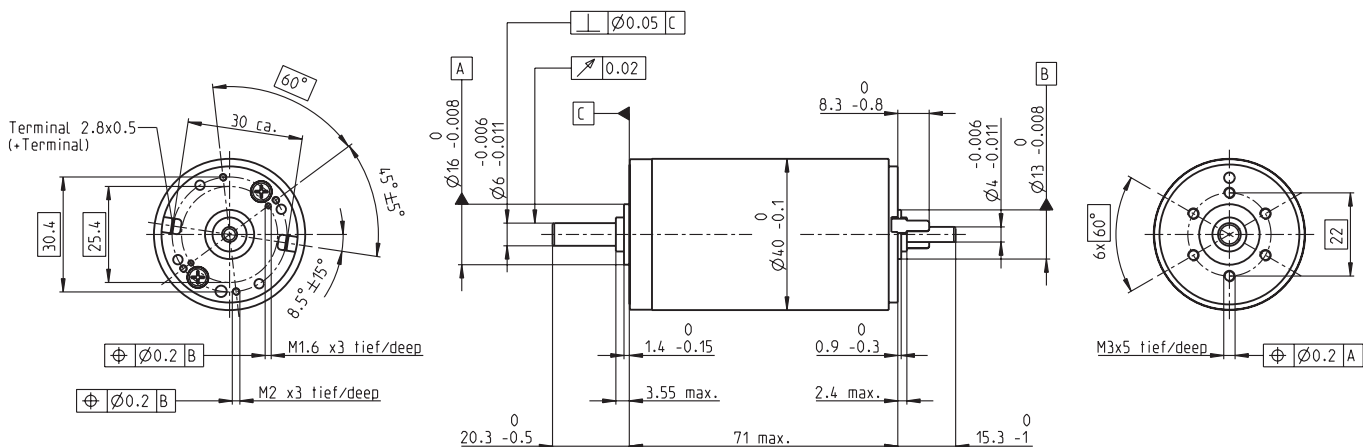
Commandez en ligne sur

Motor Store
store.mdpmotor.fr

Tél. 04 72 019 019
www.mdpmotor.fr



RE 40 Ø40 mm, Graphite Brushes, 150 Watt



M 1:2

- Stock program
- Standard program
- Special program (on request)

Article Numbers

148866 148867 148877 218008 218009 218010 218011 218012 218013 218014

Motor Data		148866	148867	148877	218008	218009	218010	218011	218012	218013	218014
Values at nominal voltage											
1 Nominal voltage	V	12	24	48	48	48	48	48	48	48	48
2 No load speed	rpm	6920	7580	7590	6420	5560	3330	2690	2130	1720	1420
3 No load current	mA	241	137	68.6	53.6	43.7	21.9	16.6	12.5	9.66	7.76
4 Nominal speed	rpm	6380	6940	7000	5810	4930	2710	2060	1510	1080	781
5 Nominal torque (max. continuous torque)	mNm	94.9	177	187	186	180	189	190	192	192	190
6 Nominal current (max. continuous current)	A	6	6	3.17	2.66	2.23	1.4	1.13	0.909	0.73	0.6
7 Stall torque	mNm	1720	2420	2560	2040	1620	1020	814	655	523	424
8 Starting current	A	105	80.2	42.4	28.6	19.7	7.43	4.79	3.06	1.97	1.32
9 Max. efficiency	%	87	91	92	91	91	89	89	88	87	85
Characteristics											
10 Terminal resistance	Ω	0.115	0.299	1.13	1.68	2.44	6.46	10	15.7	24.4	36.3
11 Terminal inductance	mH	0.0245	0.0823	0.329	0.46	0.612	1.7	2.62	4.14	6.4	9.31
12 Torque constant	mNm/A	16.4	30.2	60.3	71.3	82.2	137	170	214	266	321
13 Speed constant	rpm/V	581	317	158	134	116	69.7	56.2	44.7	35.9	29.8
14 Speed / torque gradient	rpm/mNm	4.05	3.14	2.97	3.16	3.45	3.29	3.31	3.27	3.29	3.37
15 Mechanical time constant	ms	5.89	4.67	4.28	4.2	4.19	4.16	4.15	4.15	4.15	4.16
16 Rotor inertia	gcm ²	139	142	137	127	116	121	120	121	120	118

Specifications

Thermal data	
17 Thermal resistance housing-ambient	4.7 K/W
18 Thermal resistance winding-housing	1.9 K/W
19 Thermal time constant winding	41.5 s
20 Thermal time constant motor	736 s
21 Ambient temperature	-30...+100°C
22 Max. permissible winding temperature	+155°C

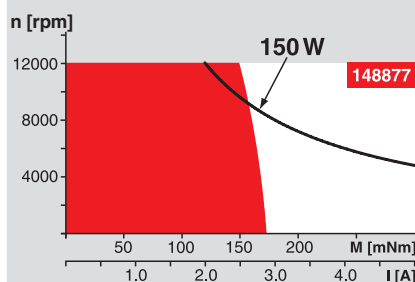
Mechanical data (ball bearings)	
23 Max. permissible speed	12000 rpm
24 Axial play	0.05 - 0.15 mm
25 Radial play	0.025 mm
26 Max. axial load (dynamic)	5.6 N
27 Max. force for press fits (static) (static, shaft supported)	110 N
28 Max. radial loading, 5 mm from flange	1200 N

Other specifications	
29 Number of pole pairs	1
30 Number of commutator segments	13
31 Weight of motor	480 g

Values listed in the table are nominal.
Explanation of the figures on page 49.

Option
Preloaded ball bearings

Operating Range



Comments

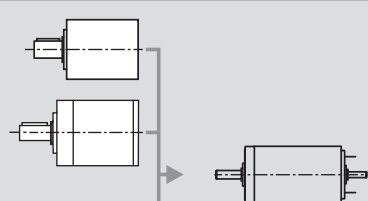
Continuous operation
In observation of above listed thermal resistance (lines 17 and 18) the maximum permissible winding temperature will be reached during continuous operation at 25°C ambient.
= Thermal limit.

Short term operation
The motor may be briefly overloaded (recurring).

— Assigned power rating

maxon Modular System

Planetary Gearhead
Ø42 mm
3 - 15 Nm
Page 242
Planetary Gearhead
Ø52 mm
4 - 30 Nm
Page 245



Recommended Electronics:
ESCON 50/5 Page 292
EPOS2 24/5 313
EPOS2 50/5 313
EPOS2 70/10 313
EPOS2 P 24/5 316
EPOS3 70/10 EtherCAT 319
ADS 50/10 373
ADS_E 50/10 373
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Overview on page 16 - 21

Encoder MR
256 - 1024 Imp.,
3 channels
Page 273
Encoder HEDL_ 5540
500 CPT,
3 channels
Page 276/278
Brake AB 28
24 VDC
0.4 Nm
Page 330
Industrial Version
Encoder HEDL 9140
Page 281
Brake AB 28
Page 331
End cap
Page 335