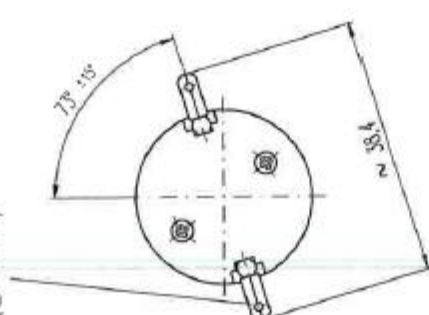


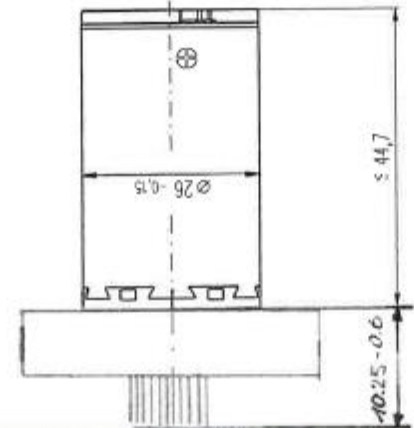
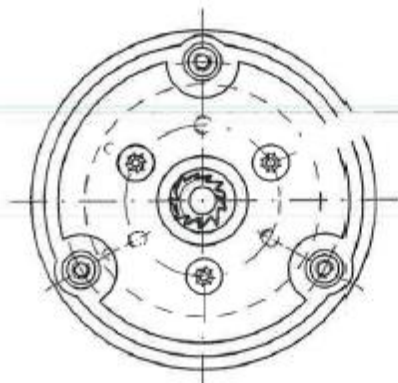
Part no		517598	517599	
1	Nominal voltage	V	12	24
2	No load speed	rpm	4460	4520
3	No load current	mA	17.1	8.76
4	Nominal speed	rpm	2775	2800
5	Nominal torque ( max continuous torque)	mNm	15.6	15.2
6	Nominal current ( max continuous current)	A	0.627	0.31
7	Stall torque	mNm	41.4	40.1
8	Stall current	A	1.62	0.8
9	Max efficiency	%	84	84
<b>Characteristics</b>				
10	Terminal resistance	ohms	7.41	30.1
11	Terminal inductance	mH	0.77	2.99
12	Torque constant	mNm/A	25.5	50.3
13	Speed constant	rpm/V	374	190
14	Speed / torque gradient	rpm/mNm	108	114
15	Mechanical time constant	ms	14.8	14.9
16	Rotor inertia	gcm <sup>2</sup>	13.1	12.5



Terminal 2.8 x 0.4  
(⊕ Terminal)



Bezugsprofil *DIN 867*  
 tooth profile  
 Zähnezahl *z = 10*  
 number of teeth  
 Modul *m = 0.5*  
 module  
 Eingriffswinkel *20°*  
 pressure angle  
 Profilverstärkungsfaktor *x = 0.24*  
 addendum modification factor

Anhaltspiel axial play <i>0.1 ... 0.2</i>	
120757	maxon A-max26-EBCLL-7H-1WE maxon A-max26-EBCLL-4M-1WE
Artikelnummer	Fertigungsstück
Referenz / part no	links/rechts 600700
547528	Mensmaß / material 15.03.2004 HIC
Bitte ohne Leiteranschlüsse Gewinde und Material wie in Abbildung dimensions without wirewires For these drawings, terminals are not to be fitted. We reserve the right to this drawing.	
maxon motor og CH-6072 Sachseln Erstl. 04/11	

printed: 2010-04-19 09:58 Druckerei 330120\_04\_10maxon

## Specifications

### Thermal data

17 Thermal resistance housing-ambient	13.2 K/W
18 Thermal resistance winding-housing	3.2 K/W
19 Thermal time constant winding	13.8 s
20 Thermal time constant motor	473 s
21 Ambient temperature	-30...+65°C
22 Max. winding temperature	+85°C

### Mechanical data (sleeve bearings)

23 Max. speed	11000 rpm
24 Axial play	0.1 - 0.2 mm
25 Radial play	0.012 mm
26 Max. axial load (dynamic)	1.7 N
27 Max. force for press fits (static)	80 N
28 Max. radial load, 5 mm from flange	5.5 N

### Mechanical data (ball bearings)

23 Max. speed	11000 rpm
24 Axial play	0.1 - 0.2 mm
25 Radial play	0.025 mm
26 Max. axial load (dynamic)	5 N
27 Max. force for press fits (static)	75 N
28 Max. radial load, 5 mm from flange	20.5 N

### Other specifications

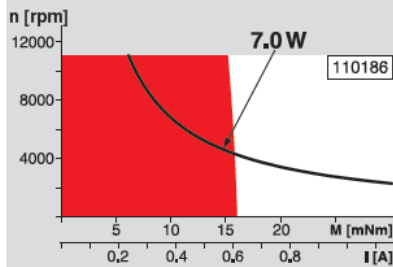
29 Number of pole pairs	1
30 Number of commutator segments	13
31 Weight of motor	117 g
CLL = Capacitor Long Life	

Values listed in the table are nominal.  
Explanation of the figures on page 107.

### Option

Ball bearings in place of sleeve bearings  
Without CLL

## 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

Overview on page 20–25

### Planetary Gearhead

Ø26 mm  
0.75 - 4.5 Nm  
Page 301

### Spur Gearhead

Ø30 mm  
0.07 - 0.2 Nm  
Page 302

### Planetary Gearhead

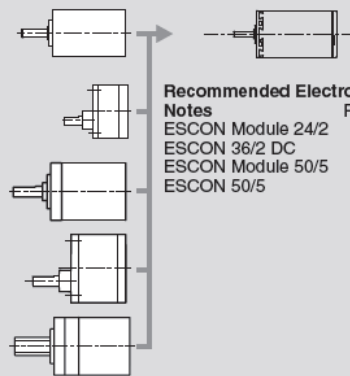
Ø32 mm  
0.75 - 6.0 Nm  
Page 303/304/307

### Spur Gearhead

Ø38 mm  
0.1 - 0.6 Nm  
Page 313

### Spindle Drive

Ø32 mm  
Page 334–336

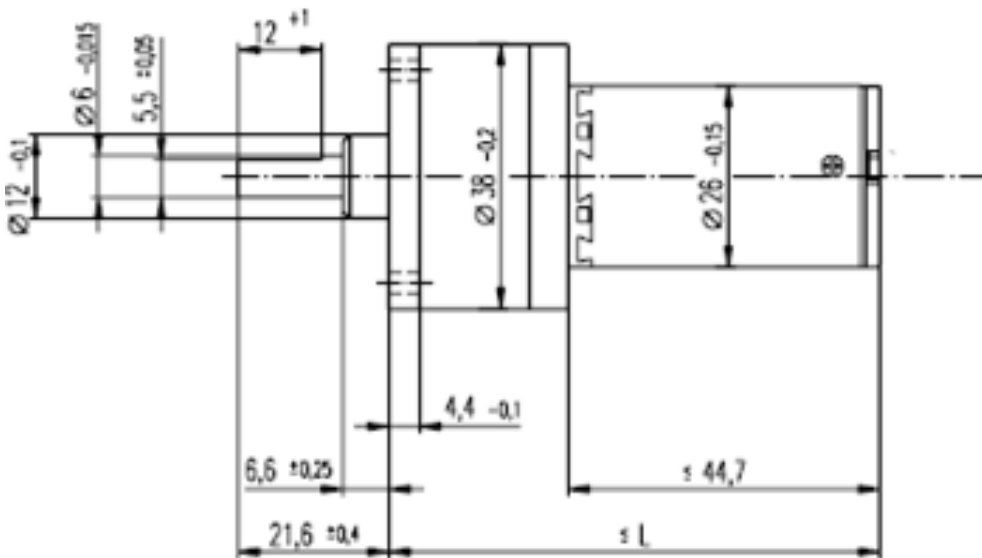


### Recommended Electronics:

Notes	Page 22
ESCON Module 24/2	378
ESCON 36/2 DC	378
ESCON Module 50/5	379
ESCON 50/5	380

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Untersetzung Reduction ratio	Stufenzahl stages	sL
6 : 1	2	65.4
10 : 1	2	65.4
18 : 1	3	67.9
30 : 1	3	67.9
60 : 1	4	70.4
100 : 1	4	70.4
200 : 1	5	72.9
500 : 1	6	75.4
900 : 1	6	75.4