



Bühler Motor
GmbH
90459 Nürnberg

Specification
713171178

Use
161046178

Revision Record

Rev. xx	IA - No.	Date	Name / Dept.	approved by	Remark
00	19323	26.05.2003	Günther GPJ2	P.Wolf GPJ2	issued
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Sheet Revision


Sheet	Size	Rev.												
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Only the coversheet and the modified sheets shall be replaced. All remaining sheets retain their validity.

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	Prepared by / Dept.:	Günther GPJ2	
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	Approved by / Dept.:	Reber 2169	

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	Bühler Motor GmbH 90459 Nürnberg	Specification 713171178	Use 161046178
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1. General

Values specified below refer to an ambient temperature of 20 to 25 °C. Unless otherwise remarked the warm up time (idling, no load) is 10 seconds. The test has to be carried out fast enough to avoid negative influences due to temperature rise.

2. Mechanical Characteristics

2.1. Dimensions, axial play, axial thrust, polarity of the supply voltage, sense of rotation etc. refer to drawing 727253178 (3)

3. RFI suppression / EMC

3.1. Schematic



$L_{1,2} = 5,2 \mu\text{H}$, at $f = 1\text{KHz}$

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1 1. JUNI 2003


4. Gearmotor characteristics

4.1. Nominal voltage	V =	13 V DC	
4.2. No load	n_0 =	790 rpm \pm 15%	①
	I_0 \leq	0,2 A	②
4.3. Load condition	T_L =	4,2 Ncm	
	n_L =	715 rpm \pm 15%	③
	I_L \leq	0,75 A	④
4.4.1. Insulation resistance	V \leq	13 V DC; R > 1 M Ω	
4.4.2. Hi-pot test (Motor terminal to housing)	V =	500 V _{rms} AC; f = 50 Hz; t = 1 sec	
4.5. Motor constants and servo parameters		713104751 (4)	

Size A4	Rev. 00	Sheet 2 of 4
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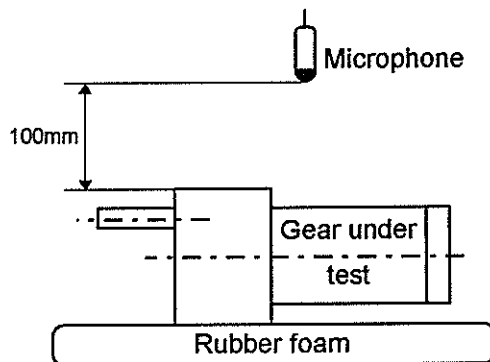
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	Bühler Motor GmbH 90459 Nürnberg	Specification 713171178	Use 161046178
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4.6. Mechanical noise at $V = 13 \text{ V DC}$
 $SPL \leq 65 \text{ dB(A)}$

Conditions: No load; Unit laying on a rubber foam of 100mm thickness. Microphone position see sketch below.



4.7. Life test:

life time 500 h running

ambient temperature = 25°C, humidity not def., nominal load item 4.3

cycle: 5sec cw, 5sec stop, 5sec ccw, 5 sec stop

180'000 cycles

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11. JUNI 2003

After life-test the motor characteristics in 4.2 and 4.3 may vary by $\pm 15\%$ from the original values.

Size A4	Rev. 00	Sheet 3 of 4
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 <p>Bühler Motor GmbH 90459 Nürnberg</p>	<p>Specification 713171178</p>	<p>Use 161046178</p>
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5. Environmental conditions


5.1. Operating

5.1.1. Temperature range	g =	-20	to	60 °C
5.1.2. Relative humidity	RH =	20	to	70 %

5.2. Storage

5.2.1. Temperature range	g =	-20	to	70 °C
5.2.2. Relative humidity Non condensing	RH =	20	to	90 %

6. Miscellaneous

Characteristics identified by this symbol  have special quality requirements as identified by the control plan.

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<p>Size A4</p>	<p>Rev.</p>	<p>Sheet 4 of 4</p>
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