

GTF7.16L/460 KM982792G13

Solid shaft $\varnothing 11$ mm with EURO flange B10, housing $\varnothing 115$ mm

Article number: 11094698

Overview

- Open circuit voltage 60 V per 1000 rpm
- Temperature compensated
- EURO flange B10
- Solid shaft $\varnothing 11 \times 30$ mm without key
- Rubber friction wheel 37.5 mm
- Connection cable 12.5 m



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A Baumer Brand

Technical data

Technical data - electrical ratings

Reversal tolerance	$\leq 0.1 \%$
Linearity tolerance	$\leq 0.15 \%$
Temperature coefficient	$\pm 0.05 \%/K$ (open-circuit)
Isolation class	B
Calibration tolerance	$\pm 5 \%$
Climatic test	Humid heat, constant (IEC 60068-2-3, Ca)
Performance	0.6 W (speed ≥ 5000 rpm)
Armature-circuit time-constant	$< 4 \mu s$
Open-circuit voltage	60 V per 1000 rpm
Approval	CE CSA

Technical data - mechanical design

Size (flange)	$\varnothing 115$ mm
Shaft type	$\varnothing 11 \times 30$ mm solid shaft (without key)

Technical data - mechanical design

Rubber friction wheel	37.5 mm
Flange	EURO flange B10
Protection EN 60529	IP 55
Torque	1.5 Ncm
Rotor moment of inertia	0.6 kgcm ²
Admitted shaft load	≤ 100 N axial ≤ 200 N radial
Material	Housing: stainless steel / plastic Shaft: stainless steel
Operating temperature	$-30 \dots +130$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Weight approx.	1.1 kg
Connection	Screw terminal connector Cable 12.5 m

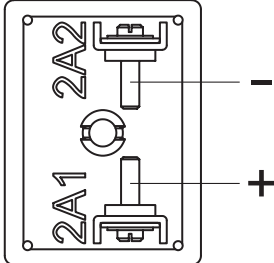
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Terminal assignment

Connecting terminal
Polarity for positive rotating direction



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Dimensions

Dimensions - see family data sheet

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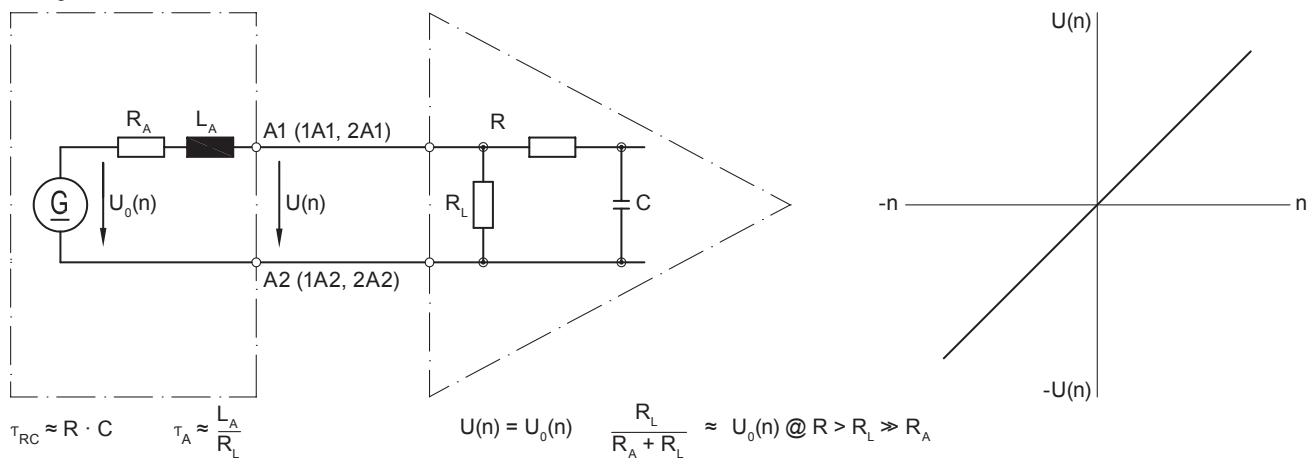
Data according to type

Type	Off-load voltage	Minimum load required depending on speed range [rpm]			Maximum operating speed	Armature resistance	Armature inductance
	U_0 [mV/rpm]	0-3000 R_L [kΩ]	0-6000 R_L [kΩ]	0- n_{max} R_L [kΩ]	n_{max} [rpm]	R_A (20°C) [Ω]	L_A [mH]
GTF7.16L/460	60	≥90	≥215	≥223	6100	760	360

Superimposed ripple (for $\tau_{RC} = 0.3$ ms): ≤0.6% (peak-peak) ≤0.25% (rms)

Equivalent circuit diagram

Tachogenerator



Polarity for positive rotating direction (see dimension) / A1 (1A1, 2A1): + (VDE) / A2 (1A2, 2A2): - (VDE)

Accessories

Spare parts

11248745 Maintenance kit for GT7 / GTF7