

## 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



### 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 $\geq 5000$ rpm)
Armature-circuit time-constant	$< 4 \mu s$
Open-circuit voltage	60 V per 1000 rpm
Approval	CE CSA

#### Technical data - mechanical design

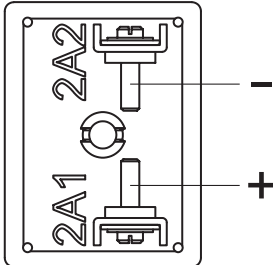
Size (flange)	$\varnothing 115$ mm
Shaft type	$\varnothing 11 \times 30$ mm solid shaft (without key)

#### 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 <sup>2</sup>
Admitted shaft load	$\leq 100$ N axial $\leq 200$ 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

## Terminal assignment

Connecting terminal  
Polarity for positive rotating direction



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### Dimensions

Dimensions - see family data sheet

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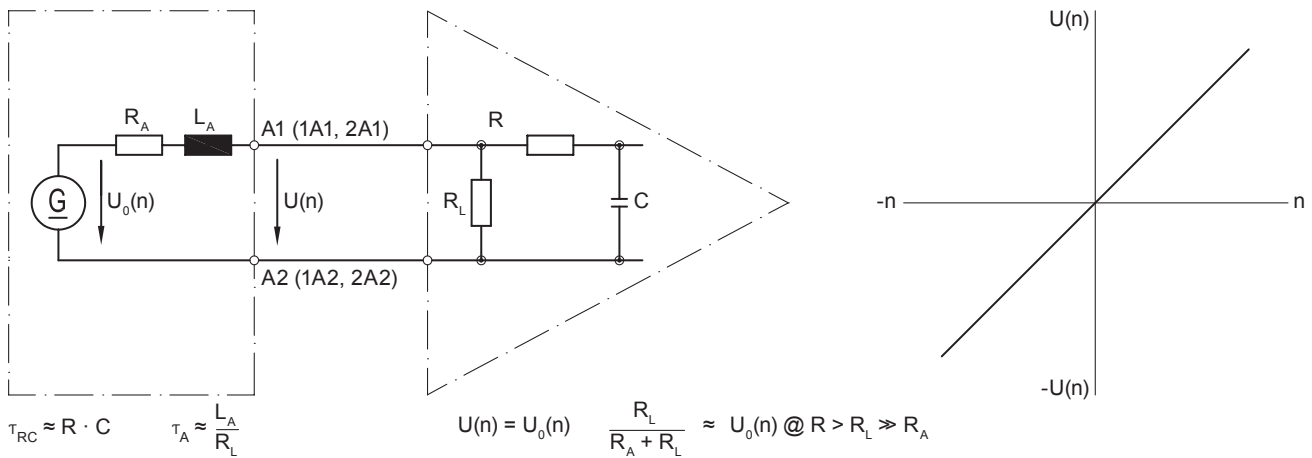
## Data according to type

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

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