

GTF7.16L/460 KM982792G25

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

Article number: 11094700

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 75 mm
- Connection cable 12.5 m



Technical data

Technical data - electrical ratings

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

Technical data - mechanical design

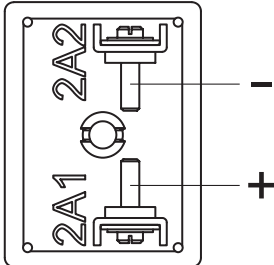
| | |
|---------------|---|
| Size (flange) | $\varnothing 115$ mm |
| Shaft type | $\varnothing 11 \times 30$ mm solid shaft (without key) |

Technical data - mechanical design

| | |
|-------------------------|--|
| Rubber friction wheel | 75 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...+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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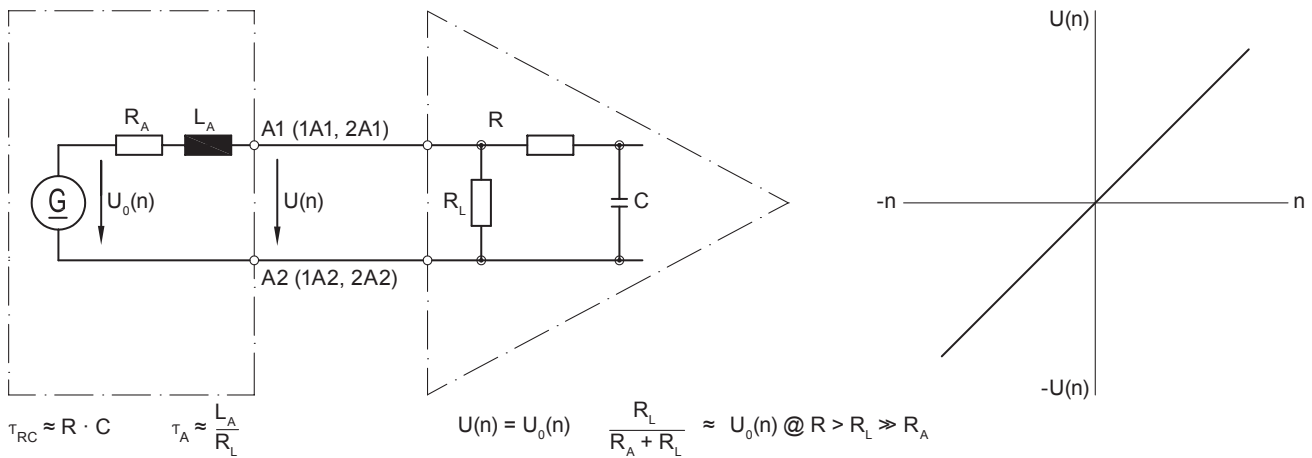
Data according to type

| 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) [Ω] | Armature inductance L_A [mH] |
|--------------|---------------------------------------|--|----------------------------------|--|---|---|--------------------------------------|
| | | 0-3000 R_L [k Ω] | 0-6000 R_L [k Ω] | 0- n_{max} R_L [k Ω] | | | |
| GTF7.16L/460 | 60 | ≥ 90 | ≥ 215 | ≥ 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