

GT 5

Blind hollow shaft $\varnothing 8...12$ mm

Housing $\varnothing 52$ mm, bearingless configuration

Overview

- Low response time
- Open circuit voltage 7...10 mV per rpm
- Blind hollow shaft $\varnothing 8...12$ mm
- High signal quality due to patented LongLife technology
- No auxiliary energy source required



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Technical data

Technical data - electrical ratings

Reversal tolerance	$\leq 0,1$ %
Linearity tolerance	$\leq 0,15$ %
Temperature coefficient	$\pm 0,005$ %/K (open-circuit)
Isolation class	B
Calibration tolerance	± 5 %
Climatic test	Humid heat, constant (IEC 60068-2-3, Ca)
Performance	0.075 W (speed ≥ 5000 rpm)
Armature-circuit time-constant	$< 4,5$ μ s
Open-circuit voltage	7...10 mV per rpm
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE

Technical data - mechanical design

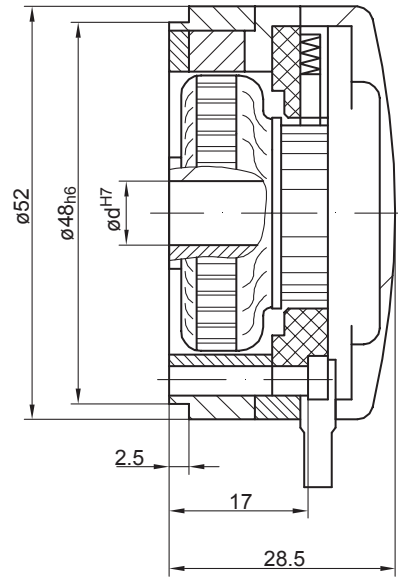
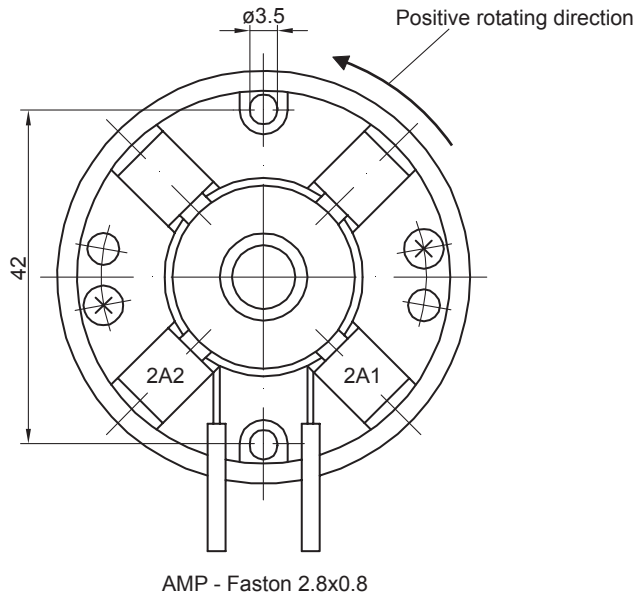
Size (flange)	$\varnothing 52$ mm
Shaft type	$\varnothing 8...12$ mm (blind hollow shaft)
Protection EN 60529	IP 00 IP 44 (with cover)
Torque	0,3 Ncm
Rotor moment of inertia	0,05 kgcm ²
Material	Housing: stainless steel / plastic Shaft: stainless steel
Operating temperature	-30...+130 °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Weight approx.	150 g
Connection	Plug-in terminals

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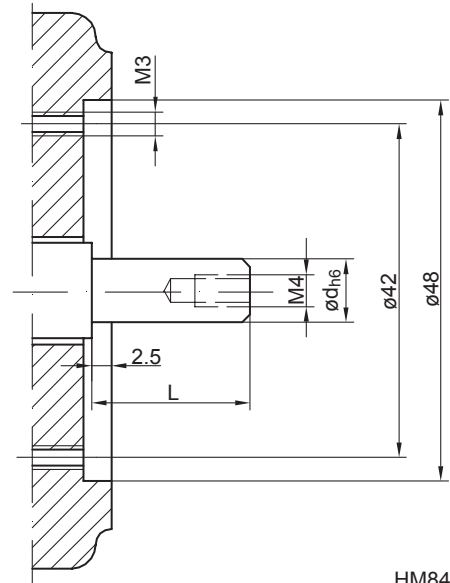
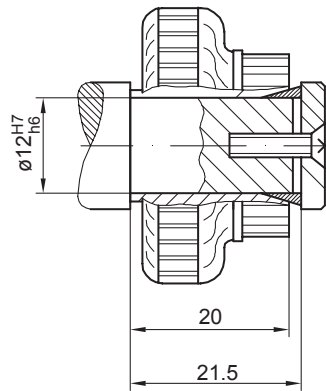
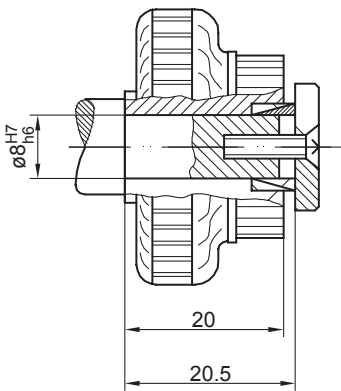
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Dimensions



$\varnothing d$	L
8	19.5
12	20.5



HM84M19780

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Blind hollow shaft ø8...12 mm

Housing ø52 mm, bearingless configuration

Ordering reference

GT5.05L/4 ##

Product

Tachogenerator

GT5.05L/4

Open-circuit voltage

7 mV per rpm	07
9.5 mV per rpm	09
10 mV per rpm	10

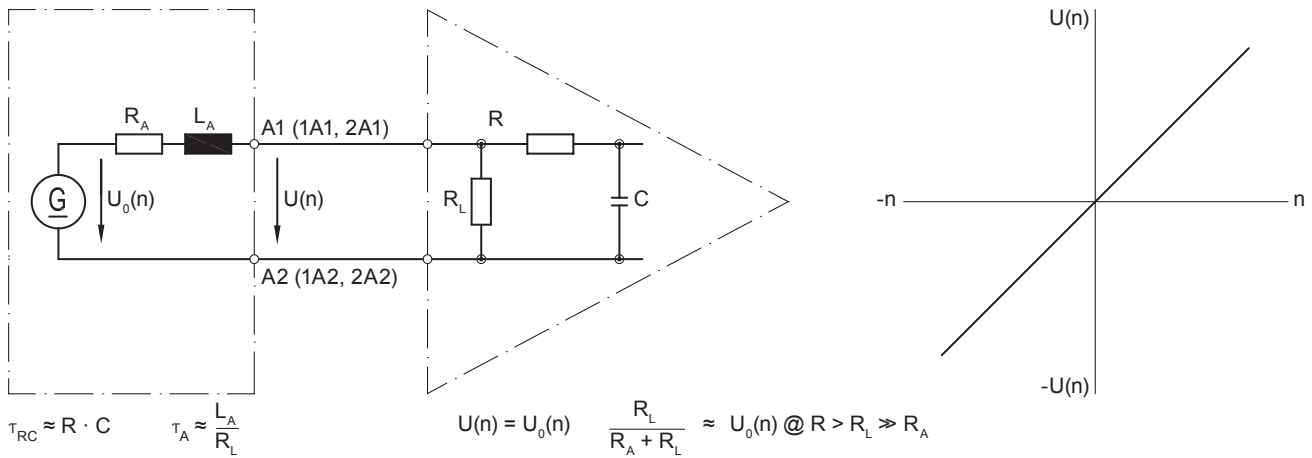
Data according to type

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 [kΩ]	0-6000 R_L [kΩ]	0- n_{max} R_L [kΩ]			
GT5.05L/407	7	≥10	≥23	≥65	10000	240	45
GT5.05L/409	9.5	≥18	≥44	≥121	10000	410	80
GT5.05L/410	10	≥20	≥48	≥133	10000	430	85

Superimposed ripple (for $\tau_{RC} = 0.3$ ms): ≤0.7% (peak-peak) ≤0.35% (rms)

Replacement switching diagram

Tachogenerator



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

Accessories

Mounting accessories

Mounting cone (on request)