

APY 50

LongLife DC tachogenerator with PY flange and 5/16" solid shaft with flat, terminal box with 1/2" -14 NPT cable entry

Article number: 11071028

Overview

- For replacement of "PY" style tachogenerators
- Low response time
- Open circuit voltage 50 V per 1000 rpm
- Calibration tolerance ± 1 %
- Very high resistance to shock
- High signal quality due to patented LongLife technology
- Recognition of sense of rotation possible via control
- CSA / C / US approved



HUBNER
BERLIN
A Baumer Brand

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	± 1 %
Climatic test	Humid heat, constant (IEC 60068-2-3, Ca)
Armature-circuit time-constant	< 75 μ s
Open-circuit voltage	50 V per 1000 rpm
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE CSA C/US

Technical data - mechanical design

Size (flange)	$\varnothing 4.5$ "
Shaft type	$\varnothing 5/16$ ", solid shaft with flat

Technical data - mechanical design

Flange	PY flange
Protection EN 60529	IP 55
Operating speed	≤ 10000 rpm
Torque	1.5 Ncm
Rotor moment of inertia	1.1 kgcm ²
Admitted shaft load	≤ 60 N axial ≤ 80 N radial
Material	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-22...+266 °F
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 300 g, 1 ms
Weight approx.	2.4 kg
Connection	Terminal box with 1/2" -14 NPT cable entry

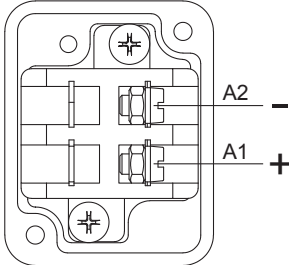
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LongLife DC tachgenerator with PY flange and 5/16" solid shaft with flat, terminal box with 1/2" -14 NPT cable entry

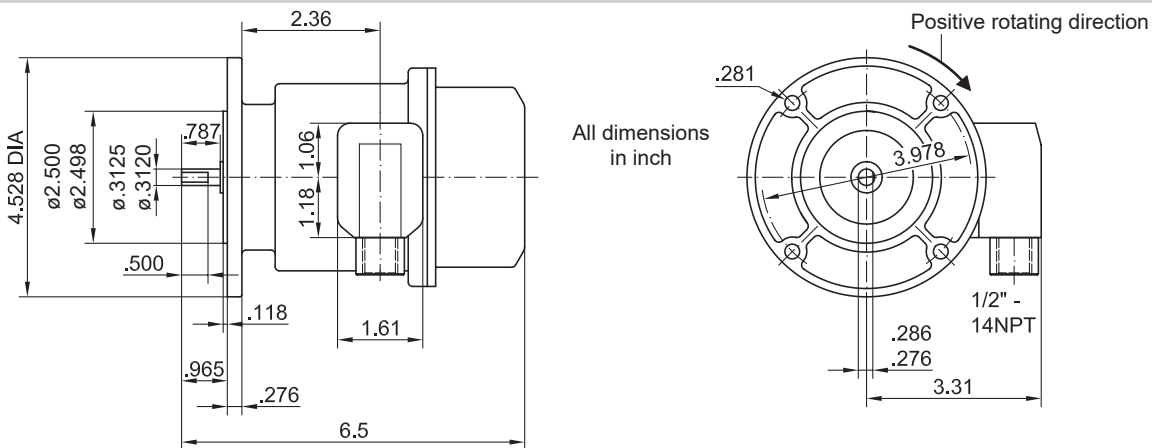
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Terminal assignment

Polarity for positive rotating direction



Dimensions



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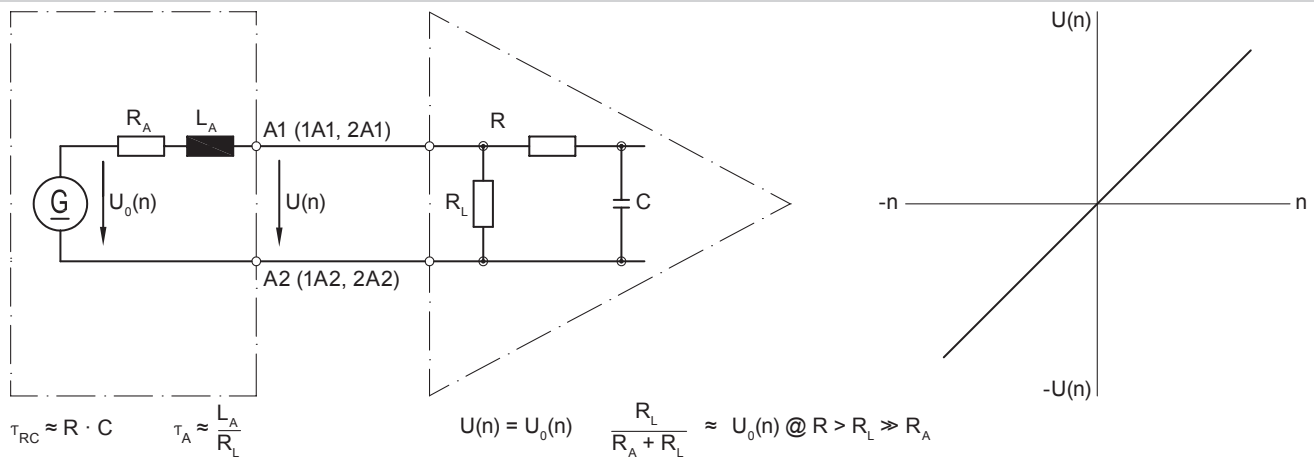
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Data according to type

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 [k Ω]	0-6000 R_L [k Ω]	0- n_{max} R_L [k Ω]	n_{max} [rpm]	R_A (68°F) [Ω]	L_A [mH]
APY 50	50	≥ 1.9	≥ 7.8	≥ 21.5	10000	66	137
Superimposed ripple (for $\tau_{RC} = 0.7$ ms):		$\leq 0.5\%$ (peak-peak)		$\leq 0.2\%$ (rms)			

Equivalent circuit diagram



Accessories

Mounting accessories

Spring disk coupling K35 (shaft $\varnothing 6 \dots 12$ mm)