SHAH ENTERPRISE

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Websites:
www.ElectroWebStore.com
www.BaumerDistributors.com
www.ExpressFuses.com

Authorized Indian Distributor of: Baumer Group (Hübner-Berlin; Baumer Electric; Thalheim; IVO)

Tachogenerators - TDP 0,2; TDPZ 0,2

Solid Shaft with EURO Flange B10 with own bearings

Baumer
Passion for Sensors

Features

- Low response time
- Open circuit voltage 10…150 mV per rpm
- Redundant output (TDPZ)
- EURO-flange B10 / solid shaft ø11 mm (Std.: 11k6 x 30 mm)
- Very high resistance to shock
- High signal quality due to patented **LongLife** technology
- Recognition of sense of rotation possible via control

Optional

- Marine air protected/tropicalized
- Second shaft end (B14) / Housing (B3) foot mounted

TDP 0,2

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)	
Interference immunity	EN 61000-6-2	
Emitted interference	EN 61000-6-3	
	TDP 0,2	**TDPZ 0,2**
Performance (speed ≥3000 rpm)	12 W	2 x 3 W
Armature-circuit time-constant	<75 µs	<40 µs
Open-circuit voltage	10...150 mV per rpm	20...100 mV per rpm

Technical Data - Mechanical Design

Size (flange)	ø115 mm (PCD: 100 mm)	
Shaft type	**ø11 mm solid shaft (Standard)**	
	ø7 mm / ø14 mm solid shaft (optional)	
Flange	EURO flange B10	
Protection DIN EN 60529	**IP 55** (IP 56 optional)	
Operating speed	≤10000 rpm	
Torque	1.5 Ncm	
Shaft load	≤60 N axial; ≤80 N radial	
Materials	Housing: Aluminium Coated	
	Shaft : Stainless Steel	
Operating temperature	-30...+130 °C	
Resistance	DIN EN 60068-2-6	
	Vibration 10 g, 10-2000 Hz	
	IEC 60068-2-27; Shock 300 g, 1 ms	
Connection	Terminal box (Screws)	
	TDP 0,2	**TDPZ 0,2**
Rotor moment of inertia	1.1 kgcm²	1.2 kgcm²
Weight approx.	2.4 kg	2.9 kg

Data according to type

*** Marked Models are available in Ex-Stock against Rupee Payment with us.**

	Type	Open-circuit Voltage	Minimum load required depending on speed range [rpm]			Maximum operating speed	Armature resistance	Armature inductance
			0-3000	0-6000	0-n_{max}			
		U_0	R_L	R_L	R_L	n_{max}	R_A (20°C)	L_A
		[mV/rpm]	[kΩ]	[kΩ]	[kΩ]	[rpm]	[Ω]	[mH]
	TDP0,2LT-6	10	≥0.1	≥0.3	≥0.9	10000	3	6
*	**TDP0,2LT-7**	**20**	≥0.3	≥1.2	≥3.3	10000	11	23
	TDP0,2LT-10	30	≥0.7	≥2.7	≥7.5	10000	26	50
	TDP0,2LT-5	40	≥1.2	≥5	≥13.5	10000	47	90
*	**TDP0,2LT-4**	**60**	≥2.7	≥11	≥30	10000	99	200
*	**TDP0,2LT-3**	**100**	≥7.5	≥30	≥30	6000	271	550
	TDP0,2LT-1	150	≥16	----	≥30	4000	630	1260
	Twin tachogenerator with redundant output (The data refer to each of the two tachogenerator outputs)							
*	**TDPZ0,2LT-7**	**20**	≥1.2	≥4.8	≥14	10000	19	45
	TDPZ0,2LT-5	40	≥4.8	≥20	≥54	10000	70	170
*	**TDPZ0,2LT-4**	**60**	≥11	≥44	≥120	10000	160	390
	TDPZ0,2LT-3	100	≥30	≥120	----	6000	445	1080
	Superimposed ripple (for R_C = 0.7 ms):			≤0.5% (peak-peak)		≤0.2% (rms)		

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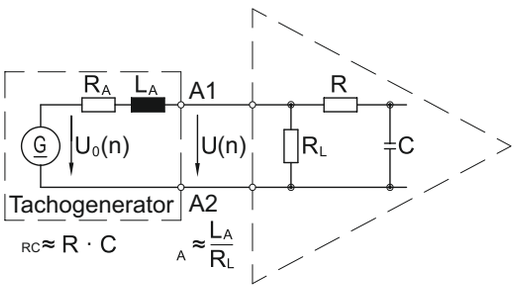
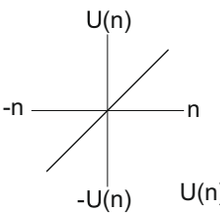
Baumer Passion for Sensors

HÜBNER BERLIN A Baumer Brand

Replacement switching diagram



Polarity for positive rotating direction: A1 (TDPZ: 1A1, 2A1): **+** (VDE)
A2 (TDPZ: 1A2, 2A2): **–** (VDE)

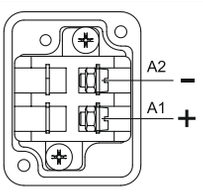


$$U(n) = U_0(n)\frac{R_L}{R_A + R_L} \approx U_0(n) \text{ for } R > R_L \gg R_A$$

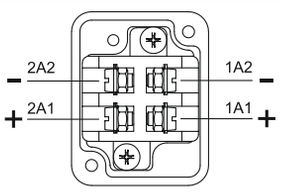
Terminal assignment — View A

Polarity for positive direction of rotation

Connecting terminal **TDP 0,2**



Connecting terminal **TDPZ 0,2**



Accessories (Optional at additional cost)

Carbon Brush (Set) I-No. ET.02.1057L. Size: 5x4x8.5 mm

Consisting of each 1 Twin Electro Graphite (H7) & Silver Graphite (S7) Brushes

Mounting Accessories: Spring Disk Coupling (Optional at additional cost)

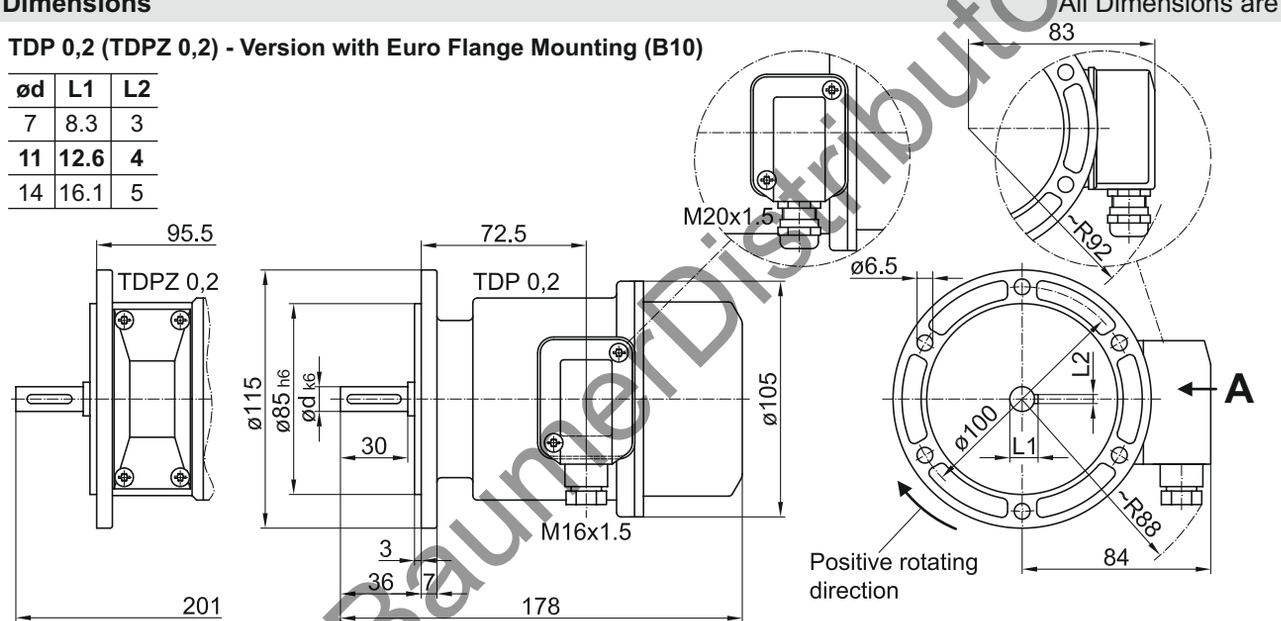
Model: K 35	for solid shaft ø6...12 mm
Model: K 50	for solid shaft ø11...16 mm
Model: K 60	for solid shaft ø11...22 mm

Dimensions

All Dimensions are in mm.

TDP 0,2 (TDPZ 0,2) - Version with Euro Flange Mounting (B10)

ød	L1	L2
7	8.3	3
11	**12.6**	**4**
14	16.1	5



TDP 0,2 (TDPZ 0,2) - Version with Foot Mounting Housing (B3)

ød	L1	L2
7	8.3	3
11	**12.6**	**4**
14	16.1	5